



ONTARIO GEOLOGICAL SURVEY

Open File Report 6092

**Perrault Falls Area High Density Regional Lake Sediment Geochemical Survey,
Northwestern Ontario: Operation Treasure Hunt**

by

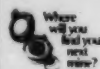
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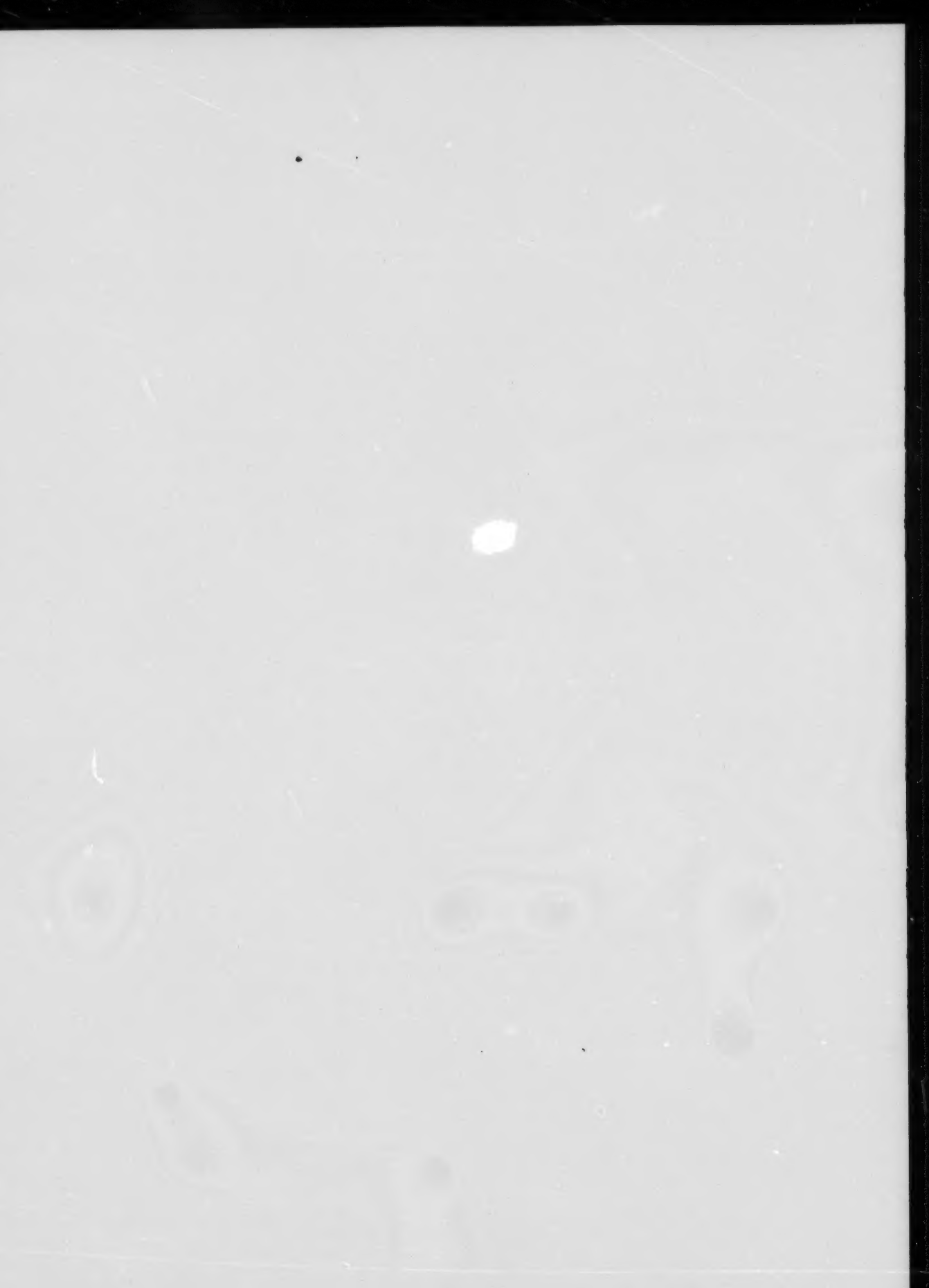
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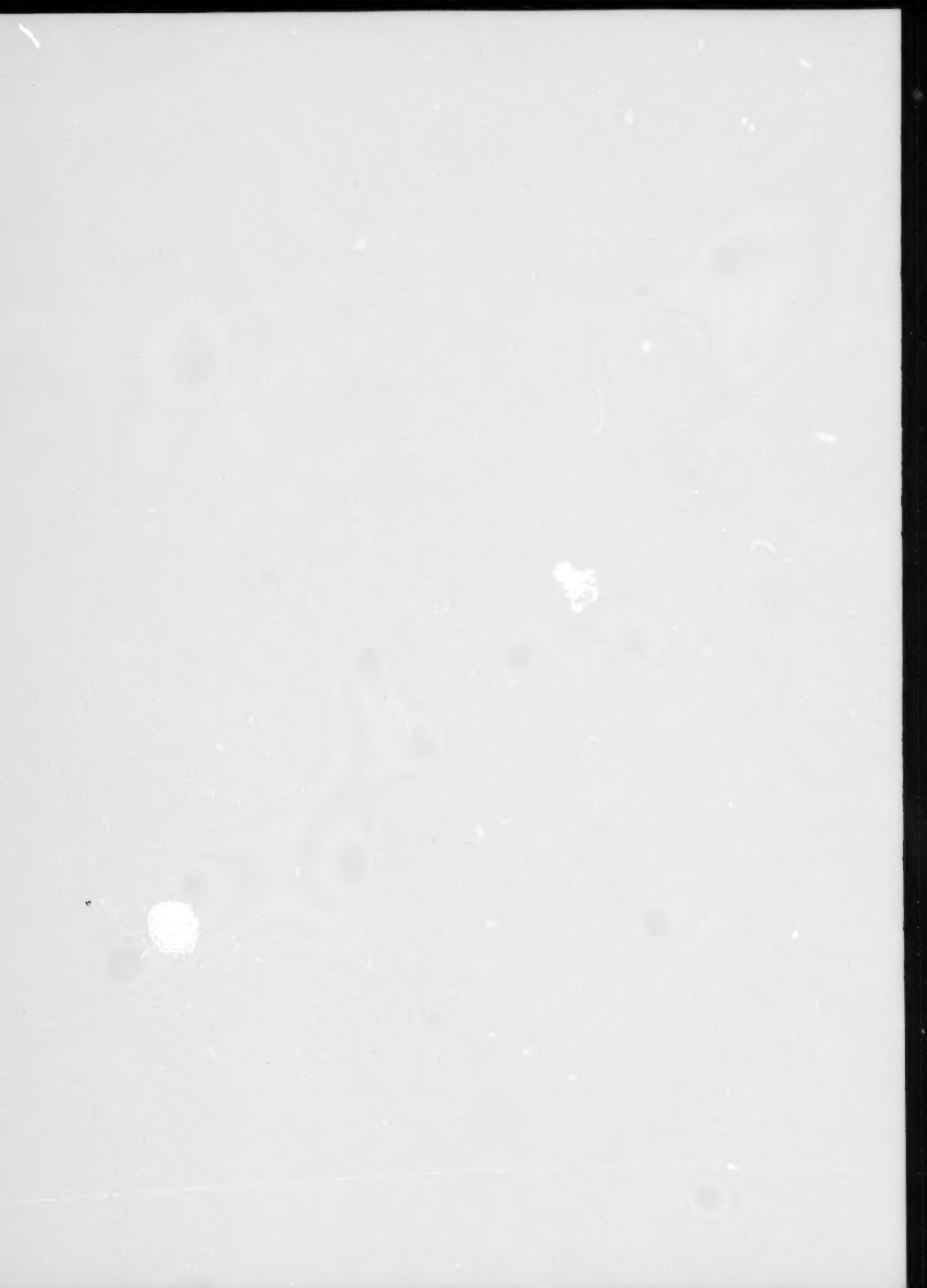
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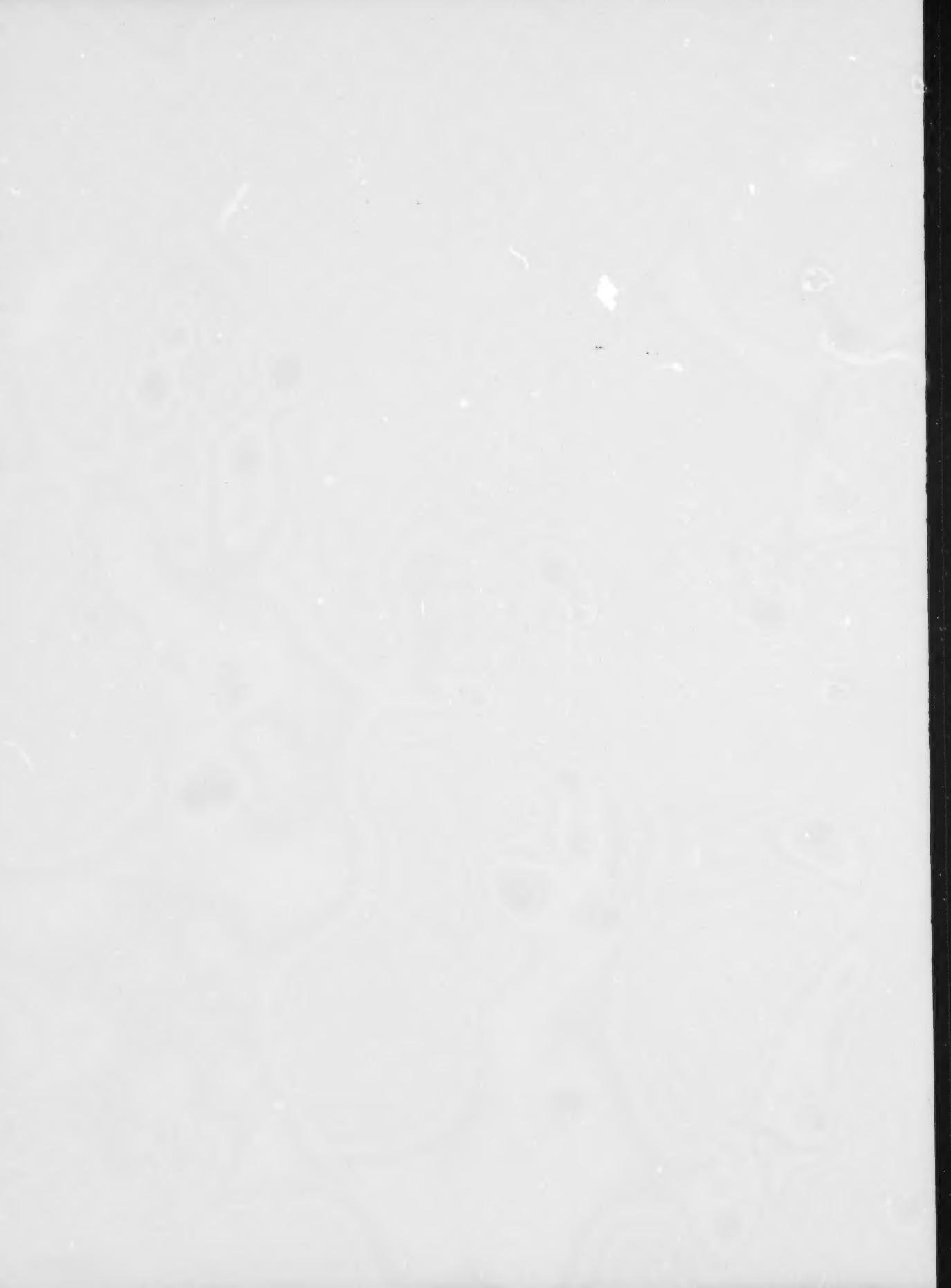
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Abstract

A helicopter supported regional lake sediment geochemical survey of the Perrault Falls area was completed during the summer of 2000. The study area is located approximately 70 km northwest of Dryden, Ontario. This survey was undertaken as part of the Operation Treasure Hunt (OTH) program. The OTH program is a 3 year initiative employing geological, geochemical and geophysical techniques to investigate the mineral potential of Ontario. Lake sediment samples were collected at 1124 sites in the Perrault Falls area. Preliminary interpretation of the geochemical patterns has outlined 23 anomalous areas. The anomalous elements include: Au, Pt, Pd, Ni, Cu, Zn, Pb, Ag, Cd, Co, Mo, REEs, Cs and Li. The anomalous areas are loosely ranked in order of their exploration interest. As of February 2002, large portions of the Perrault Falls survey area were open for staking. The Perrault Falls geochemical survey has generated many new target areas for potential precious and base metal mineralization. Digital geochemical data for this survey has been released separately from this report as Miscellaneous Release-Data (MRD) 106.



Introduction

Operation Treasure Hunt (OTH) is a 3 year \$29 million program of geological, geochemical and geophysical investigations, covering areas of Ontario with high mineral potential as well as areas traditionally considered to have little or unknown mineral potential. The type, location and areal extent of geoscientific surveys carried out under OTH, came largely from recommendations received from the technical sub-committee of the Ontario Geological Survey Advisory Board (OGSAB). Two major components of the OTH program are surficial geochemical/indicator mineral surveys and airborne geophysical surveys. This report describes the results of a lake sediment geochemical survey covering the Perrault Falls area of northwestern Ontario (Figure 1).

A private company under contract to the Ontario Geological Survey (OGS) carried out fieldwork for the lake sediment geochemical survey of the Perrault Falls area during the summer of 2000. The survey area, centered on Perrault Falls, Ontario, covers approximately 5 925 km² and encompasses all or parts of the areas shown on the National Topographic System (NTS) 1:50 000 scale map sheets 52 K/2, 52 K/3, 52 K/6, 52 K/7, 52 K/10 and 52 K/15. Lake sediment samples and/or limnological (water quality) parameters were collected at 1262 sites yielding an average density of 1 sample per 5 km². A total of 1124 lake sediment samples were submitted for analyses of over 50 elements, including Au, Pt and Pd.

Bedrock Geology

A generalized version of the bedrock geology for the survey area is derived from the Geology of Ontario compilation (Ontario Geological Survey 1991) and is shown in Figure 2. Breaks and Bond (1993) conducted a regional geological compilation of the area at a scale of 1:253 440. The Perrault Falls survey area covers 3 geological subprovinces of the Superior Province. The center of the survey area is underlain by metasedimentary migmatitic rocks of the English River Subprovince. Metasedimentary and metavolcanic rocks of the Uchi Subprovince are located in the northern portion of the survey area and granitoid rocks of the Winnipeg River Subprovince underlie the southern portion of the survey area (Figure 2). Mineral deposits within the Uchi Subprovince include Au, volcanogenic massive sulfide and magmatic Cu-Ni (Stott and Corfu 1991). The South Bay Cu-Zn-Ag deposit lies about 15 km north of Bowerman Township.

The dominant type of mineral deposit within the English River Subprovince is iron derived from banded iron formations. Rare-element and radioactive element-enriched pegmatites are also common throughout the belt. Occurrences of Cu-Co-Ni-PGE, volcanogenic massive sulfide and Au mineralization are rare within the English River Subprovince (Breaks 1991).

Rare element-enriched pegmatites are also known to occur along the boundary between the Winnipeg River and the Wabigoon Subprovince (Breaks and Bond 1993).

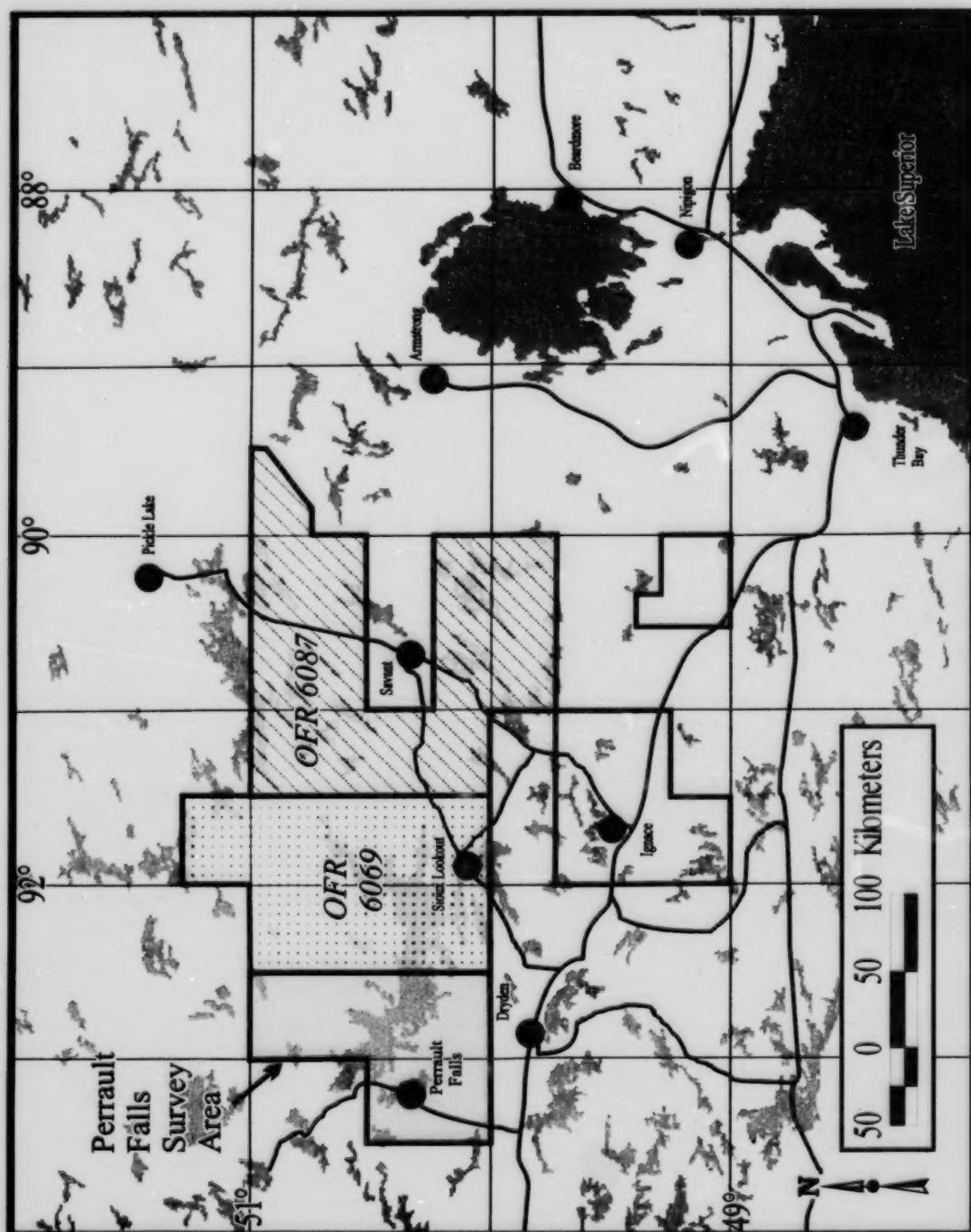


Figure 1. Location map of the Perrault Falls high density lake sediment geochemical survey area.

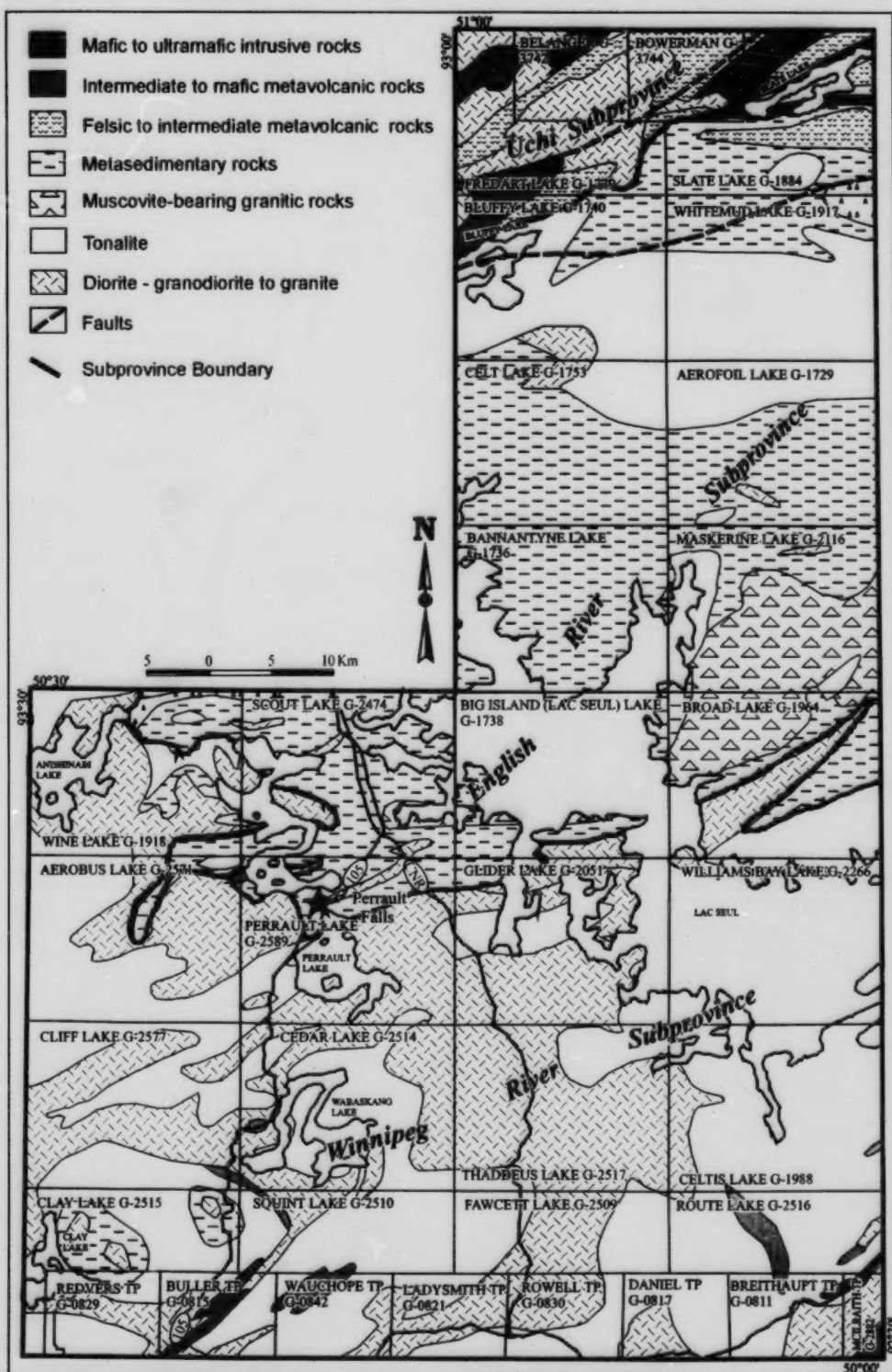


Figure 2. Generalized bedrock geology of the Perrault Falls survey area (from Ontario Geological Survey 1991).

Quaternary Geology

Systematic, detailed Quaternary geological mapping has not been conducted over this area. Zoltai (1965) completed reconnaissance Quaternary mapping at a scale of 1:506 880. A more recent, regional compilation of the Quaternary geology of the area has been completed by Barnett et al. (1991) and is shown on Figure 3.

Sampling Methods

Organic lake sediment samples were collected from a helicopter float, using a gravity corer. In order to avoid anthropogenic influences and water/sediment interface effects (i.e., diagenetic cycling of Mn due to anoxic conditions resulting in secondary scavenging/accumulation of base metals), only deep sediment (>20 cm below the sediment surface) was collected. This material better reflects the effects of natural geochemical inputs that may be traced to local geology. Water quality parameters (e.g., pH, conductivity, oxidation-reduction potential, dissolved oxygen) were obtained from most lake sites using a YSI water quality analyzer. This was done using a submersible pump, plastic hoses and a flow cell. Water was pumped from the lake and allowed to purge the hoses and flow cell prior to the recording of water quality parameters. A GPS receiver was utilized to record accurate sample site positions. Field notes were recorded on standardized forms and entered into a Microsoft® Access database at the end of each day.

Sample Preparation and Analytical Methods

Lake sediment samples were placed in breathable fabric bags and partially air dried prior to being shipped for laboratory analysis. A total of 1124 sediment samples were submitted for analysis. Final drying was done in an oven with temperature not exceeding 40 degrees C. Dried samples were disaggregated using a ceramic ring and puck pulverizer and then sieved to obtain the <80 mesh (<177 µm) size fraction.

Laboratory analysis consisted of nitric-aqua regia digestion of 1 g of sample pulp followed by inductively coupled plasma-mass spectrometry (ICP-MS) and inductively coupled plasma-optical emission spectroscopy (ICP-OES) to determine approximately 50 trace elements. Nitric acid-aqua regia digestion attacks all sample matrix constituents, except for silicate minerals, and is therefore considered a nonselective, relatively strong partial extractant.

Approximately 10 g of sample pulp was pressed into briquettes for analysis by instrumental neutron activation analysis (INAA) for Au, As and a suite of 25 other elements. Enough material from the original 1124 samples was available to analyze 1116 samples by this method.

Samples were also submitted for analysis by fire assay (FA) with an ICP-MS finish to determine Au, Pt and Pd. Samples were submitted in 15, 10, 5 and <5 g sample weights depending on the amount of sample pulp available. There was sufficient material to analyze 1099 samples by FA/ICP-MS. Two laboratories were used for the fire assay Au-PGE analyses. The Ministry of Northern Development and Mines laboratory (GeoLabs), performed the sample preparation and most of the analytical work, including the FA/ICP-MS analysis for the PGEs. However, their FA/ICP-MS method requires a minimum 15 g of sample material. Sufficient material for this analysis was available for 81% of the Perrault Falls survey area samples. In order to obtain a complete dataset, an external laboratory was contracted to perform the FA/ICP-MS analysis for PGEs on the remaining 19% of the samples.

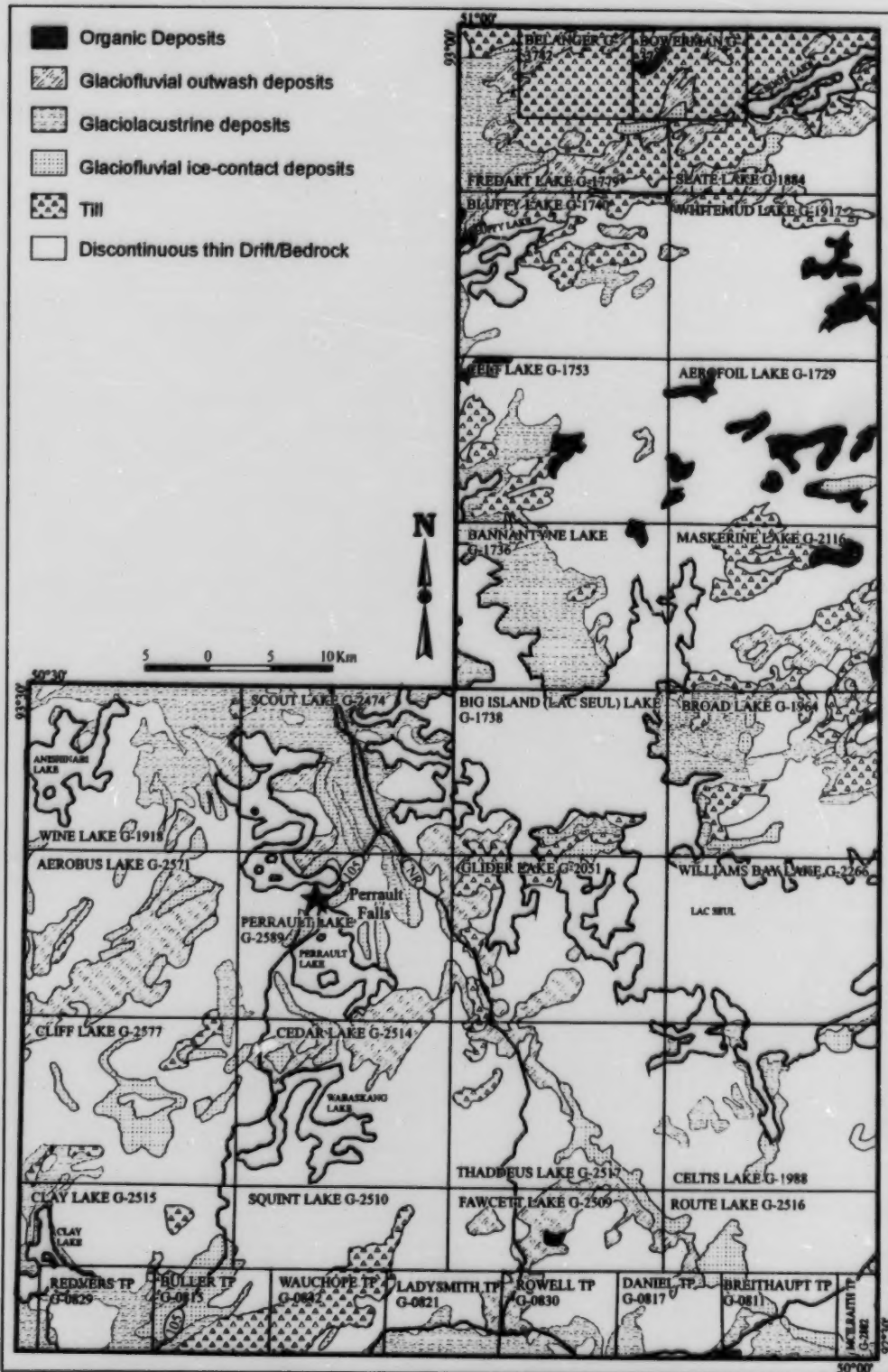


Figure 3. Generalized Quaternary geology of the Perrault Falls survey area (after Barnett et al. 1991).

This laboratory analyzed samples with weights from <5, 5 and 10 g. The Au, Pt and Pd data presented in the dot diagrams contain the combined analyses from both of these laboratories. The analyses obtained from the <5 to 10 g pulp group contain lower detection limits and lower background values than those obtained from the 15 g sample pulp group. For the purposes of calculations and quality control plots, all samples were treated as 10 g sample weights with respect to detection limits. The percentiles used to generate the proportional dot maps for Au, Pt and Pd utilized the entire FA/ICP-MS dataset. Since the background values are different for the 2 sample weight groups (i.e., the 2 laboratories used), it is possible that some of the anomalous values from the <5 to 10 g sample group are masked or suppressed in their presentation on the dot diagrams. This possibility has been taken into account in the interpretation/description of the anomalous areas listed below. However, the interpretation found below is not exhaustive; therefore, the reader may wish to obtain the digital data (MRD-106) in order to treat and plot the data from the 2 laboratories separately. The Rh and Ir data have also been included in MRD-106 but should be considered as semi-quantitative only.

Quality control was monitored through the use of sample pulp duplicates and certified reference materials. Loss-on-ignition (LOI) was determined at 500° C, using a standard furnace-gravimetric technique.

During the field program, the contractors monitored the quality of the water data collected by taking readings with the YSI from a nearby lake on a daily basis in order to monitor instrumental drift. In addition, the various parameters on the water quality analyzer were calibrated on a weekly basis.

Quality Control Results

Every 10th sediment sample submitted was a quality control (QC) sample. The QC sediment samples consisted of field duplicates, analytical (pulp) duplicates, certified reference standards (CRS) and an internal (OGS collected) bulk standard. Field (method) duplicates were inserted with a frequency of 1 in 40. Analytical pulp duplicates were prepared by halving 1 in 40 of the dried sample pulps and inserting them into the sample sequence. CANMET certified reference standards (LKSD 1 and 4, Lynch 1990) and an OGS internal standard were also inserted as dried pulps between the sample preparation and analysis stages. Every 20th sample was either a CRS or an OGS internal standard. These 3 standards were inserted alternately so that each was repeated every 60th sample.

Analytical precision for each element was determined by plotting duplicate data on an X-Y chart and determining the variation of 95% of the data from a 1:1 ratio. Accuracy was determined by plotting the sequential values returned for certified reference standards inserted in the batch against a vertical scale of concentration and comparing this with the "provisional values" (Lynch 1990) for the standards. The mean and standard deviation of values returned for each standard were also compared with the provisional values.

Table 1 contains a summary of the elements analyzed from the lake sediments in the study area. The statistics include median, range, and coefficients of variation for the certified reference material and the estimates of precision obtained from sample duplicates. A complete listing of all the geochemical data used to prepare this table is contained in the Miscellaneous Release-Data (MRD-106), published separately from this report.

Table 1. Summary of elements analyzed by ICP, INAA and FA with quality control data including estimates of precision for the Perrault Falls study area, lake sediment dataset.

Element	Analytical Method	Units	MDL	Lake Sediment (n=1124)			Estimated Precision	LKSD-1 Reference Standard (n=207)			LKSD-4 Reference Standard (n=199)		
				Median	Range Min	Range Max		Certified Value	Mean Q.C. Result	Coefficient of variation (%)	Certified Value	Mean Q.C. Result	Coefficient of variation (%)
Ag	ICP-MS	ppm	0.02	0.15	<0.02	0.65	± 0.13	0.6	0.61	21.54	0.2	0.25	29.58
Al	ICP-OES	ppm	30	17250	2209	39008	± 2991	41300	4516	16.96	31200	13309	7.81
As	INAA	ppm	0.5	2.6	<0.5	47	± 1.4	40	37	12.44	16	17	12.24
Au	INAA	ppb	2	<2	<2	25	± 3	5	4	141.93	2	1	92.94
Au	FA/ICP-MS	ppb	0.9	2.3	<0.9	26.8	± 4.6	5	4.86	164.21	2	3.60	46.26
Ba	ICP-MS	ppm	1	110	22	343	± 12.91	430	96.72	6.29	330	141.15	4.90
Be	ICP-MS	ppm	0.1	0.54	<0.1	4.9	± 0.54	1.1	0.2	101.37	1	0.45	43.33
Br	INAA	ppm	0.5	34	2.8	147	± 4	11	12.0	38.07	49	53.9	8.90
Ca	ICP-OES	ppm	15	8261	1052	87467	± 1540	77200	64005	16.29	12900	9820	5.64
Cd	ICP-MS	ppm	0.05	0.33	<0.05	2.09	± 0.21	1.2	1.67	59.85	1.9	2.07	8.90
Ce	INAA	ppm	5	64	7	962	± 10	27	28	6.75	48	48	11.73
Co	ICP-MS	ppm	0.05	8.53	0.8	49.46	± 2.1	9	7.88	8.32	11	9.12	8.62
Cr	ICP-OES	ppm	4	35	4	134	± 5	12	12	8.73	21	20	6.35
Cs	ICP-MS	ppm	0.01	1.23	0.19	4.01	± 0.27	1.5	0.53	8.10	1.7	1.11	7.81
Cu	ICP-OES	ppm	5	26	6	213	± 4	44	45	6.30	30	32	5.51
Dy	ICP-MS	ppm	0.05	1.96	0.18	24.02	± 0.39	3.4	1.83	10.90	3.7	3.01	6.25
Er	ICP-MS	ppm	0.01	0.96	0.12	11.64	± 0.23	-	1.02	9.80	-	1.70	6.81
Eu	ICP-MS	ppm	0.05	0.70	0.11	8.1	± 0.17	0.9	0.5	11.82	1.1	0.93	6.91
Fe	ICP-OES	ppm	5	20459	2022	177033	± 4234	18000	20598	6.28	27000	28735	5.53
Ga	ICP-MS	ppm	0.05	3.88	0.58	11.16	± 1.62	-	2.10	11.83	-	4.01	10.68
Gd	ICP-MS	ppm	0.05	3.60	0.48	47.62	± 2.65	-	2.65	18.44	-	4.59	23.61
Hf	ICP-MS	ppm	0.05	0.05	<0.05	0.72	± 0.09	3.6	<0.05	54.42	2.8	<0.05	48.90
Hg	ICP-MS	ppm	0.05	0.08	<0.05	0.58	± 0.08	110	0.11	27.19	190	0.19	21.52
Ho	ICP-MS	ppm	0.01	0.36	0.04	4.65	± 0.1	-	0.36	13.74	-	0.60	10.38
K	ICP-OES	ppm	100	1074	<100	4920	± 349	9100	452	15.31	6600	976	13.14
La	INAA	ppm	1	32	4	483	± 6	16	15	6.90	26	26	14.70
Li	ICP-MS	ppm	0.5	13.37	<0.5	46.69	± 4.4	7	4.45	15.68	12	9.14	13.34
Lu	ICP-MS	ppm	0.005	0.12	0.006	1.37	± 0.05	0.4	0.14	18.95	0.5	0.25	13.36
Mg	ICP-OES	ppm	20	3827	605	24545	± 876	10300	6400	6.25	5400	3969	6.05
Mn	ICP-OES	ppm	1	297	31	3554	± 84	460	459	6.79	430	458	6.40
Mo	ICP-MS	ppm	0.1	1.0	0.2	16.8	± 0.66	12	9.95	13.72	2	1.85	26.80
Na	ICP-OES	ppm	10	158	28	1408	± 108	14800	300	22.81	5200	215	16.88
Nb	ICP-MS	ppm	0.05	1.42	0.18	3.85	± 0.59	7	0.81	26.84	9	1.25	10.71
Nd	ICP-MS	ppm	0.08	24.1	2.99	478.07	± 4.75	16	12.62	7.73	25	23.05	12.04
Ni	ICP-OES	ppm	5	28	7	68	± 4	11	16	8.57	32	36	5.74
P	ICP-OES	ppm	50	950	206	4757	± 154	-	746	7.44	-	1340	5.66
Pb	ICP-MS	ppm	0.05	5.61	0.53	33.43	± 1.14	84	84.50	12.37	93	94.50	15.84
Pd	FA/ICP-MS	ppb	0.9	1.0	<0.9	212	± 1.09	-	<0.9	30.64	-	1.20	274.68
Pt	FA/ICP-MS	ppb	0.5	0.5	<0.5	9.9	± 0.51	-	<0.5	22.36	-	0.56	53.82
Pr	ICP-MS	ppm	0.05	6.56	0.78	150	± 1.39	-	2.99	10.44	-	5.86	15.79
Rb	ICP-MS	ppm	0.05	15.59	1.11	58.29	± 4.13	24	3.75	12.27	28	10.36	9.74
S	ICP-OES	ppm	30	2554	441	22253	± 283	15700	16370	5.84	9900	10219	4.97
Sb	ICP-MS	ppm	0.05	0.08	<0.05	2.01	± 0.08	1.2	0.63	19.43	1.5	1.19	17.25
Sc	ICP-MS	ppm	0.1	3.3	0.2	25.9	± 1.24	9	2.64	18.18	7	3.98	11.21
Sm	ICP-MS	ppm	0.05	3.93	0.53	59.23	± 0.80	4	2.61	8.42	5	4.34	7.73
Sn	ICP-MS	ppm	0.5	<0.5	<0.5	1.3	± 0.32	16	3.22	11.26	5	3.19	13.19
Sr	ICP-OES	ppm	1	26	8	267	± 5	250	65	6.11	110	41	5.56
Ta	INAA	ppm	0.5	<0.5	<0.5	3	± 0.95	0.3	<0.5	64.47	0.4	<0.5	60.22
Tb	ICP-MS	ppm	0.05	0.42	0.05	4.31	± 0.21	0.6	0.35	39.45	1.2	0.60	41.61
Th	INAA	ppm	0.5	7.3	1.1	46.0	± 1.2	2.2	2.1	11.82	5.1	5.2	9.80
Ti	ICP-OES	ppm	3	413	26	1428	± 218	3010	355	19.55	2270	455	12.03
Tl	ICP-MS	ppm	0.05	0.19	<0.05	0.63	± 0.04	-	0.23	10.7	-	0.45	9.34
Tm	ICP-MS	ppm	0.05	0.13	<0.05	1.52	± 0.05	-	0.14	16.80	-	0.25	11.10
U	ICP-MS	ppm	0.05	2.45	<0.05	53.12	± 1.06	9.7	8.86	7.91	31	30.61	10.15
V	ICP-OES	ppm	5	37	<5	369	± 7	27	22	8.74	32	34	5.91
W	ICP-MS	ppm	0.05	0.1	<0.05	1.88	± 0.23	<4	0.65	28.81	<4	0.26	38.93
Y	ICP-MS	ppm	0.05	9.67	1.32	135.36	± 2.12	19	10.69	9.37	23	16.95	5.39
Yb	ICP-MS	ppm	0.05	0.81	<0.05	8.85	± 0.22	2	0.92	11.50	2	1.61	7.82
Zn	ICP-OES	ppm	2	78	8	766	± 11	337	323	5.80	189	193	4.64
Zr	ICP-MS	ppm	0.1	2.2	<0.1	29.6	± 3.0	134	1.67	30.98	105	1.18	38.55
LOI	Grav.	%	0.01	35.46	3.56	91.17	± 0.82	23.5	22.93	7.20	40.8	41.22	4.75

Notes:

- ICP-MS = Inductively Coupled Plasma - Mass Spectroscopy; ICP-OES = Inductively Coupled Plasma - Optical Emission Spectroscopy; INAA = Instrumental Neutron Activation Analysis; FA = Fire Assay.
- MDL = Method Detection Limit.
- Estimated precision at 95% confidence level; ICP-MS, ICP-OES and INAA elements based on results of 400 duplicate pairs; FA/ICP-MS based on 382 duplicate pairs.
- Coefficient of variation expressed as one standard deviation (68% confidence level) as a percentage of the mean.
- LKSD-1 and LKSD-4 are Canmet certified reference materials. For ICP elements, quoted reference values for Ag, Cd, Co, Cr, Cu, Fe, Hg, Mn, Mo, Ni, Pb, V, Zn determined by partial digestion; all other ICP elements determined by total digestion. For INAA elements, values are by total digestion methods.

The quality of the lake sediment data varies from element to element but, in general, is very good. The analytical methods listed below contain elements with varying degrees of QC problems. This is not unusual, since different methods are preferred for analysis of different elements. The elements summarized in Table 1 are the best analytical results obtained from the various assay methods.

Quality control (QC) assessment of the ICP-MS data indicated minor problems with Be, Hg, Pb, Sb and Sn. Minor QC problems were also detected in Na and Ti from the ICP-OES dataset. These elements should be treated with some caution. All other ICP data included in Table 1 and in MRD-106 are of good quality.

Some caution should also be used when interpreting Ta from the INAA dataset. This element shows significant noise in the QC standards and may contain inflated or depressed analytical results throughout the sample sequence. All other elements are of good quality. The estimate of precision for Au determined by INAA is ± 3 ppb and is quite good for this method.

The precision of FA/ICP-MS elements (Au, Pt and Pd) was acceptable. The estimated precision for Au, Pt and Pd is ± 1.5 , ± 0.7 and ± 1.5 ppb, respectively.

Geochemical Data Interpretation

Factors to consider when assessing the possible significance of an anomaly are as follows:

1) Correlation with geology

In mineral exploration, correlation with geology is the most important factor when assessing the significance of a surficial geochemical anomaly, however, its relative importance declines as the known level of detail of the geology declines. Since much of the survey area has never been mapped in detail, many of the geochemical anomalies will help focus and prioritize future geological investigations.

2) Multi-site anomalies

Multi-site anomalies provide separate verification of the "anomalousness" of a given area and provide some insurance against non-systematic errors in sample quality, collection, preparation or analysis. However, since samples are collected, prepared and analysed in sequence, a uniform and numerically sequential anomaly may be the result of a systematic analytical or sample preparation error. This might be expected to produce an apparent geographic grouping of fairly uniform concentrations in one, or possibly several, elements. As mentioned above, every effort has been made to detect this kind of problem but the user is reminded to consider all available data when assessing the importance of an anomaly.

3) Multi-element anomalies

Multi-element anomalies with geologically reasonable elemental assemblages are useful in assessing the importance of many anomalies. For example, Pt and Pd, which are relatively immobile in the surficial environment compared to base metals such as Cu, Cr, Ni, Pb and Zn, would not be expected to be found in anomalous levels in a lake sediment without an accompanying base metal signature. Gold on the other hand, can occur in quartz vein deposits with little or no associated base metals; therefore, a gold

anomaly by itself can be significant. A gold anomaly with an associated base metal signature, however, may be even more significant. However, certain multi-element anomalies (e.g., Mo + Zn) can sometimes result from limnological factors (e.g., redox conditions related to deep lakes, relative level of organic material in the sediment).

4) Magnitude of the anomaly

The magnitude of an anomaly, perhaps surprisingly, is one of the least important assessment criteria. Magnitude depends not only on the size of a deposit but on its distance from the lake, the presence and effectiveness of sinks between the source and lake, the limno-geochemical conditions in the lake, the weatherability of the deposit and the character of the surficial deposits (i.e., level of carbonate). The weatherability depends on factors such as exposure and/or depth of burial and on the specific mineralogy of the source. All these factors combine to make magnitude an unreliable estimate of the importance of an anomaly except in extreme cases or in cases where multiple samples and/or media corroborate its importance.

5) Correlation with Surficial Geology

Unconsolidated deposits can, under certain circumstances, cause a greater impact on the chemistry of lake media than can bedrock. Carbonate materials within eskers and thick ice-contact stratified drift deposits often result in relatively hard, alkaline lake waters. This type of lake water provides a geochemical matrix for trace elements that is very different to that of most shield lakes which are mildly acidic and organic-dominated. In general, most metals are relatively immobile in such alkaline conditions, therefore geochemical anomalies might be considered more significant and possibly close to source.

Dilution or addition to the trace metal signature in sediments can occur due to the presence of fine-grained unconsolidated material such as clay. Often a spatial relationship can be seen between lake sediment anomalies and glaciofluvial deposits such as eskers. In general, the sample collection and preparation protocols employed by the OGS, when properly carried out, minimize the deleterious effects of exotic inorganic materials which may be present in the survey areas.

6) Redox conditions, lake depth and organic content

Not all spatial trends in geochemistry are due to lithological or mineralogical factors. The solubility of trace metals depends to a large extent on the geochemical matrix and in particular, on pH and oxidation-reduction (redox) conditions. Redox conditions in a lake are usually controlled by thermal conditions which, in turn, are controlled by lake morphology and lake depth. If conditions are suitable for an element to preferentially partition into the lake sediment, factors that may influence (enhance) the concentration of the element include the abundance of Fe, Mn and organic material. The mechanisms that may lead to "false anomalies" include sorption (scavenging) by hydrous oxides of Fe and Mn and the affinity of some elements to form organo-metallic complexes. Enrichment of some elements in the shallow (surface to 10 cm deep) sediment due to the upward migration and precipitation/concentration of Fe and Mn (and other trace elements such as Co, Pb, Mo and Zn originally co-precipitated with Fe and Mn) can occur.

The OGS sampling technique avoids the surface sediment and targets the deep (>20 cm) sediment thereby reducing/minimizing the effects Fe, Mn and base metal enrichment that may occur in the surface sediment, whether by redox cycling or by anthropogenic input. This assumes a similar sedimentation rate in all of the sampled lakes and that the lake sediments deposited over the past several hundred years being undisturbed. This may not always be true. Sedimentation rates can vary

depending on the energy of and the input to the depositional environment. Other factors to consider are sediment slumpage/mudslides, the effects of wavebase and the activities of animals. Therefore, the inadvertent collection of some "mixed" (shallow and deep sediment) samples is unavoidable.

Discussion of Water Limnological Parameters

The mean values for pH and conductivity collected in the survey area are 7.06 and 50 $\mu\text{S}/\text{cm}$, respectively. The pH values range from 4.16 to 8.99 and the conductivity values range from 11 to 242 $\mu\text{S}/\text{cm}$. The proportional dot diagram of pH of lake waters indicates that many of the alkaline lakes occur in areas underlain by glaciofluvial and glaciolacustrine deposits. These lakes also contain higher electrical conductivity values and may indicate the presence of dissolved carbonate minerals in the waters. The alkaline conditions that exist in these lakes may affect the interpretation of the geochemical anomalies from the Perrault Falls survey area. The solubility of many trace metals is decreased under alkaline conditions, such that weaker geochemical anomalies in alkaline lakes may be closer to their source. The weaker geochemical anomalies in alkaline lake waters may warrant further investigation. The more acidic lakes in the survey are underlain by felsic intrusive and metasedimentary rocks in areas overlain by thin glacial drift.

Description of Selected Anomalous Areas

Proportional dot maps for pH, conductivity and lake depth are contained in Appendix A. Lake sediment proportional dot maps for Ag, Al, As, Au(INAA), Au(FA), Ba, Be, Ca, Cd, Co, Cr, Cs, Cu, Fe, K, Li, LOI, Mg, Mn, Mo, Ni, P, Pb, Pd, Pt, Rb, REEs, Sb, Sc, Sn, Sr, Ta, Th, Ti, U, V, W and Zn are contained in Appendix B. Selected analytical data for lake sediment samples are listed in Appendix C and all of the analytical data are included in the digital release (MRD-106).

The following is a summary of most of the multi-element and/or multi-site base and precious metal anomalous areas from the Perrault Falls survey. The anomalies are loosely ranked by size and magnitude and are indicated on Figure 4. There are also numerous single site/single element anomalies that occur throughout the survey area that are not listed below, but may warrant further investigation. The land tenure map, indicating staked and areas withdrawn from staking as of February 2002, is shown as Figure 5. The locations for all of the lake sediment sample sites are shown on Figure 6 (back pocket).

A "±" symbol used in the area description means that a particular element is present at elevated to anomalous levels in some, but not all, of the sample sites listed. The term "elevated" indicates analytical results above the 90th percentile, "anomalous" for results above the 95th percentile and "highly anomalous" for results above the 98th percentile. For the Au (determined by both the FA and INAA methods) and PGE data, "weakly anomalous" refers to values at or above the 95th percentile while "anomalous" refers to values above the 99.5 percentile. Where possible, the dots on the proportional dot diagrams were sized to represent the percentile intervals: <50th, 50th - 75th, 75th - 90th, 90th - 95th, 95th - 98th and >98th. Elements with a large proportion of analyses falling below the detection level or below the estimate of precision were plotted with fewer intervals. Based on favourable geology and/or geochemistry, the site numbers in **bold** contain the most noteworthy results from within each area.

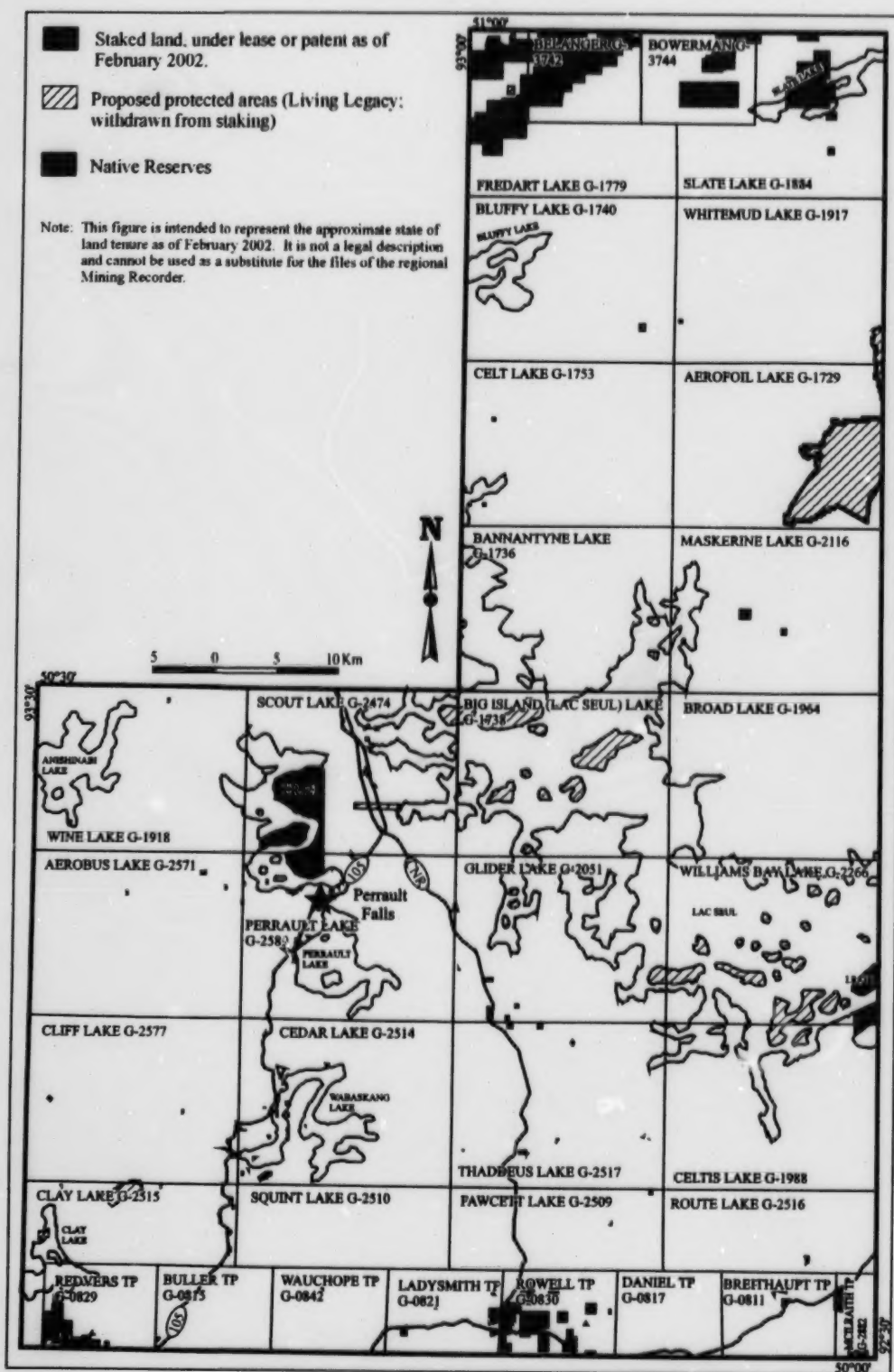


Figure 5. Land tenure map of the Perrault Falls survey area as of February 2002.

1. Anishinabi Lake Ni, ±Cr, ±Cu, ±Zn, ±V, ±Pb, ±Co, ±Rb, ±Li, ±Fe, ±Mn

Sites: 8937, **8947**, **8955**, 8976, 8978, 9025-9029, 9032, 9042, 9045, 9047, **9049**, **9051**, **9054**, 9056-9065, 9077, 9081-9084, **9086**, 9089, 9091, 9094, **9096**-9098

All of these sites in the Anishinabi Lake area contain elevated to highly anomalous values of Ni. The sites listed in bold also contain anomalous to highly anomalous values of Cu. Site 9096, located in Wine Lake, returned the highest Ni (68 ppm) and Mo (16.8 ppm) with the 2nd highest Cu (104 ppm) value of the survey. This sample is highly inorganic (LOI=7.32%) and should be treated with extreme caution. Sites 8947, 8976, 9025, 9026, 9028, 9032, 9042, 9045, 9058, 9065, 9083, 9089, 9091, 9094 and 9098 all contain LOI values of less than 20%. The high inorganic component of these samples may be the contributing factor to the geochemical anomalies at these sites. Many of the higher Ni, Cu and Cr values occur along the northern and eastern edge of a granitic intrusive in contact with metasedimentary migmatites. This contact also corresponds to the geological boundary between the English River and Winnipeg River subprovinces. In addition to the elements listed above, elevated to highly anomalous values of Al, As, Ba, Sn, K, Cs, Sc and Ti were returned from some of the sites in the area. The base metal anomalies obtained in the Anishinabi Lake area suggest a possible mafic-ultramafic intrusive source rock. Although no rocks of this type are known from this area, small enclaves of mafic to intermediate metavolcanic rocks are mapped along the western shore of Anishinabi Lake (Breaks and Bond 1993). The presence of anomalous concentrations of Li, Cs and Rb in the area suggests the presence of a pegmatitic source rock in the area.

Sulfide mineralization in shear zones along felsic intrusive and metasedimentary rock contacts are known from the Bury and Moose lakes area, located 140 km to the east (Hudec 1965). Massive pyrrhotite, pyrite and magnetite with traces of chalcopyrite, pentlandite and silver occur in quartz veins and silicified shear zones along metasedimentary-felsic intrusive rock contacts (Hudec 1965).

Previous mining and mineral exploration for Ni, Cu, Cr and Co is also known from the Werner Lake area, located 110 km to the west of the Anishinabi Lake area. The Werner Lake area is underlain by metasedimentary migmatitic rocks and intruded by intermediate to felsic plutons, sills and pegmatitic dikes (Parker 1998). Ultramafic/mafic intrusive lenses and pods are distributed along the Werner-Rex lakes fault zone that separates the metasedimentary rocks to the north from the tonalitic to granodioritic batholiths to the south. The ultramafic rocks host massive and disseminated Ni-Cu-PGE and Cr mineralization (Parker 1998). As of February 2002, the area was open for staking.

2. Wigwam Lake Au

Sites: 8401, 8403, 8404, 8408, 8412, 8545, **8553**, **8556**, 8559

The Wigwam Lake area is located in the southeastern portion of the survey area. The area is underlain by tonalitic rocks and a small enclave of mafic to intermediate metavolcanic rocks. Site 8553 returned the highest value of 25 ppb Au(INAA) in the survey area. This value was also corroborated by the fire assay method with a value of 11.7 ppb Au(FA). Site 8556 returned a value of 10 ppb Au(INAA) with a corroborating value of 8.0 ppb Au(FA). Sites 8545 and 8559 returned values of 11 and 9 ppb Au(FA), respectively. These values were not reproduced by the fire assay method. Several other sites in the area (8401, 8403, 8404, 8408 and 8412) returned values of 10.1, 16.9, 10.8, 10.2 and 11.6 ppb Au(FA), respectively. These values were not duplicated by the neutron activation method. No other elements are anomalous at these sites. As of February 2002, the area was open for staking.

3. Bowerman/Belanger Twp. Zn, ±Cu, ±Cd, ±Mo, ±REE, ±Be, ±Sb, ±Ag, ±W

Sites: 2287, **2288**, **2291**, **2296**, 2369, 2372, 2374

Bowerman and Belanger townships are located in the northern portion of the survey area and are underlain by Archean rocks of the Uchi Subprovince. The geology of the area consists of intermediate to felsic metavolcanic rocks, mafic to ultramafic intrusive rocks and felsic intrusive rocks. Site 2374 returned an elevated Zn value and all of the other sites listed above returned highly anomalous Zn values. Sites 2288, 2291 and 2296 returned elevated to highly anomalous values of Cu, Cd, Mo and REEs. These sites also contain the 3 highest Zn values (766, 385 and 252 ppm, respectively) obtained from the survey area. Sites 2288 and 2291 returned the 2 highest Cd values (2.09 and 1.63 ppm, respectively) of the survey area. Weakly anomalous Ag, anomalous W, and highly anomalous Be and Sb were also returned from site 2296. Many of the highest REE values collected in the present survey were obtained in the Bowerman Township area. The presence of REE values may suggest possible hydrothermal alteration of the intermediate to felsic metavolcanic rocks in this area. Similar anomalous REE values were obtained from lake sediment samples collected over the Winston Lake volcanogenic massive sulfide deposit (Dyer 1997). The South Bay Cu-Zn-Ag deposit lies 15 km to the north of this area. As of February 2002, much of the area was staked.

4. Whitemud River Cs, Nb, Sn, Cd, Co, ±Li, ±Rb, ±REEs

Sites: 2639, 2727, 2729, 2812, 2814

These sites returned some of the highest values obtained in the survey area for Cs, Nb, Li, Sn, Be, Hg and Tl. The values for Cs range from 2.29 to 4.01 ppm; values for Nb range from 2.43 to 3.78 ppm; values for Li range from 22.2 to 46.6 ppm; values for Sn range from 0.8 to 1.3 ppm; values for Be range from 0.8 to 3.5 ppm; values for Hg range from 0.1 to 0.5 and values for Tl range from 0.36 to 0.63 ppm. The area is underlain by tonalitic to granodioritic rocks of the Bluffy Lake batholith. The anomalous suite of elements returned from this area suggest possible granitic pegmatite source rocks. Numerous other sites in this area also returned elevated to anomalous values of Cs. As of February 2002, no claim had been staked in this area.

5. Twilight Lake Ni, ±Cu, ±Cr, ±Co, ±Fe, ±Mn, ±Li, ±Mg, ±Ti, ±Zn

Sites: 8678, 8707, 8804, 8805, 8827, 8829, 8832, 8833, **8861**, **8863**, **8864**, **8865**, **8867** 8886, 8889, 8892, 8893, **8894**

The Twilight Lake area is located in the southwestern portion of the survey area in the Clay and Cliff lake areas. All of the above listed sites contain elevated to highly anomalous values of Ni ranging from 45 to 64 ppm. The samples in bold also contain highly anomalous values of Cr. Sites 8829, 8861 and 8863 also contain elevated to highly anomalous values of Fe and Mn and may indicate potential metal scavenging. Some caution is advised when interpreting the data. The area is underlain by granodiorite, tonalite and metasedimentary rocks. As of February 2002, the area was open for staking.

6. Aerofoil Lake Pd

Sites: 2948, 2949

The Aerofoil Lake area is located in the northeastern portion of the survey area. Sites 2948 and 2949 returned values of 212 and 9.5 ppb Pd, respectively. The Pd value returned from site 2948 is the highest value obtained from the survey area. No other elements are anomalous from these sites. The area is underlain by metasedimentary rocks. As of February 2002, the area was open for staking.

7. Akin Lake Au

Site: 8576

Akin Lake is located in the northeastern portion of Rowell Township. A single site anomaly (8576) returned a value of 14 ppb Au(INAA). A lower, but corroborating value of 5.3 ppb Au(FA) was also returned from this site. No other elements are anomalous in this sample. The area is underlain by granodioritic to granitic intrusive rocks and as of February 2002, the area was open for staking.

8. Meridian Lake Au, ±REE, ±U

Sites: 8655, 8656, 8668

Site 8655 returned the 2nd highest Au value of the survey area (19 ppb, Au(INAA)). A low value of 3.2 ppb Au(FA) was also returned from the same sample. This site also returned anomalous REE and U values. Sites 8668 and 8656 returned values of 11 and 10 ppb Au(INAA), respectively. These Au values were not corroborated by the fire assay method. The area is underlain by massive granodioritic to granitic intrusive rocks. As of February 2002, one small claim was present near site 8655.

9. Taber Lake Zn, Co, ±Cd, ±REEs, ±Sb, ±Al, ±As, ±Ag

Sites: 2703, **2704**, 2705, 2886, 8162

All of these sites contain elevated to highly anomalous values of Zn (113 to 140 ppm) and Co (15.33 to 35.74). Site 2704 returned elevated to highly anomalous values for all of the elements listed above. Anomalous Fe and Mn was obtained from site 2703 and may indicate potential metal scavenging in this sample. Some caution is advised. The area is underlain by tonalitic and granodioritic intrusive rocks. As of February 2002, one small claim located east of Taber Lake was present in this area.

10. Celt Lake (5 km south) ±Pt, ±Ni, ±Cu, ±Cr, ±Co, ±Al, ±Ba, ±Be, ±P, ±Sr, ±V, ±Zn

Site: 2962-2965, 2967, 2968, 2972, 8166, 8175, 8176, 8179

Site 2963 returned a low value of 3.1 ppb Pt with elevated Co and Ni values. Of the other sites listed above; 7 contain elevated to highly anomalous values of Al, Co and P; 6 contain elevated to highly anomalous values of Be and Cu; 5 contain elevated to highly anomalous values of Sr; 4 contain anomalous to highly anomalous values of Ba; 3 contain elevated to anomalous values of Ni and 2 contain elevated to anomalous values of Cr, V and Zn. The area is underlain by metasedimentary rocks and as of February 2002, there were no claims in the area.

11. Redvers Lake Ni, Cu, Cr, Ti, Fe, Mg, Zn, Al, Ba, Cs, K, Li, Rb, Sc, Sn, ±Ta, ±Pb, ±Co

Sites: **8875, 8876, 8878, 8879**, 8881

The Redvers Lake area is located in the southwestern portion of the survey area in Redvers Township. The sites in bold contain anomalous to highly anomalous values of Ni, Cu, Cr, Al, Fe, K, Li, Mg, Ti, Rb and Zn. Many of these elements returned some of the highest values from the survey area. The values for Ni range from 52 to 68 ppm; Cu values ranges from 46 to 60 ppm; Cr values range from 73 to 83 ppm; Ti values range from 900 to 1428 ppm; Al values range from 32 040 to 38 499 ppm; Rb values range from 39.42 to 58.29 ppm; Fe values range from 34 834 to 46 884 ppm; Mg values range from 10 302 to 15 017 ppm; Zn values range from 126 to 155 ppm; K values range from 3373 to 4920 ppm and Li values range from 31.7 to 46.7 ppm. The other elements listed above occur in elevated to anomalous concentrations within these samples. The sites listed in bold are highly inorganic with LOI values of less than 25% and some caution is advised. The area is underlain by tonalitic rocks and as of February 2002, most of the area was staked.

12. West Cedar Lake (south) Pt, Pd, Cr

Site: 8498

This anomaly is a single site that returned values of 9.9 ppb Pt and 10.1 ppb Pd. This is the highest Pt and 3rd highest Pd values obtained from the survey area. This site also returned elevated values of Cr, K and Rb. The LOI (20.51) indicates a high inorganic component and some caution is advised when interpreting this anomaly. The area is underlain by massive granodiorite to granite and as of February 2002, parts of the area were open for staking.

13. Mold Lake Pt, Cu, Co, Mo

Site: 535

This site returned a low value of 2.6 ppb Pt with elevated Mo (2.6 ppm) and anomalous Al (30 577 ppm), Co (17.79) and Cu (45 ppm). The area is underlain by tonalitic rocks. Intermediate to mafic

metavolcanic rocks are mapped about 1.5 km to the west of Mold Lake. The site was available for staking as of February 2002.

14. Peephole Lake Au, Cr, Mg, Rb, Ti

Site: 8591

Site 8591 returned the 3rd highest Au(INAA) value in the survey area of 15 ppb. A low value of 2.3 ppb Au(FA) was obtained from the same sample. The site also returned elevated values of Cr, Mg, Rb and Ti. The LOI (17.28%) for this site indicates a high inorganic content that may be the contributing factor to the anomaly. Some caution is advised when interpreting this anomaly. The anomaly is underlain by felsic intrusive rocks and as of February 2002, there were no claims staked in the area.

15. Whitemud River Au

Site: 2689

The Whitemud River is located in the northern portion of the survey area. Site 2689 returned a value of 18 ppb Au(FA) with no corroborating Au(INAA) value. No other elements are anomalous at this site. The area is underlain by tonalitic to granodiorite intrusive rocks. The lack of corroborating Au values and apparent lack of favourable bedrock geology suggest that this anomaly should be treated with caution. As of February 2002, the area was open for staking.

16. Film Lake Pt, Pd, ±Au

Sites: 8524, 8526

Film Lake is located in the southeastern portion of the survey area along the boundary between the Thaddeus and Fawcett lake areas. The area is underlain by massive granodioritic to granitic intrusive rocks. Site 8524 returned values of 3.8 ppb Pt, 6.9 ppb Pd and 24.1 ppb Au(FA). This Au anomaly is not corroborated by the INAA method and no other elements are anomalous at this site. Site 8526 returned values of 5.86 ppb Pt and 10.0 ppb Pd. This site also returned the highest values obtained from the survey area for Ag (0.85 ppm), Fe (177 033 ppm), Sc (25.9 ppm), Th (46 ppm), total REEs (2233 ppm) and V (369 ppm) with highly anomalous values of Cu, Cr, As and W. The high Fe content and lake depth (14 m) at this site may indicate possible metal scavenging processes. This may be a false anomaly and caution is advised.

Two other sites (8516 and 8482) located in Fawcett Lake, 2 km west of Film Lake returned values of 28.8 and 20.7 ppb Au(FA), respectively. These values were not corroborated by the INAA method and no other elements are anomalous at these sites. Site 8481 is located in the same lake as site 8482 and returned only low values 3.3 ppb Au(FA) and <2 ppb Au(INAA). The Film Lake area should be treated with caution when interpreting these anomalies. As of February 2002, the area was open for staking.

17. Sunlight Lake Pd, Cr, Co, Zn

Site: 3083

This single site anomaly produced the 2nd highest Pd (17.4 ppb) value of the survey area. The site also returned elevated values of Co, Cr, Fe, K, Rb, Ta and Zn with anomalous values of Pb (10.25 ppm) and Mn (724 ppm) and highly anomalous values of Cs (3.04 ppm) and Li (38.31). The LOI (15.06%) indicates a high inorganic component and with the presence of Fe and Mn in the sample may be the contributing factor to the anomaly at this site. Caution is advised when interpreting this anomaly. The area is underlain by muscovite bearing granitic rocks and is near the contact with metasedimentary rocks. Foliated diorite and quartz diorite are known to occur about 5 km south of the Sunlight Lake anomaly. As of February 2002, the area was open for staking.

18. Aerofoil Lake (7 km north of lake) Pt, Co, Zn, Fe, Mn

Site: 2874

This is a single site anomaly that returned a low value of 2.7 ppb Pt with elevated Fe, anomalous Mn and highly anomalous Co (24.35 ppm) and Zn (147 ppm). The presence of Fe and Mn in the sample may be the contributing factor to the anomaly at this site and caution is advised. The site is underlain by foliated tonalitic rocks and is near the contact with metasedimentary rocks. As of February 2002, the site was available for staking.

19. Hodgins Lake Au

Site: 8632

This is a single site, single element anomaly that returned a value of 12 ppb Au(INAA). This value was not corroborated by the fire assay method. The LOI for this sample indicates a high inorganic component (23.7%) which may be contributing to the anomaly at this site. Some caution is advised. The area is underlain by tonalitic and granodioritic intrusive rocks. As of February 2002, the area was open for staking.

20. Ord River Au

Site: 8585

This is a single site, single element anomaly that returned a value of 11 ppb Au(INAA). The lack of corroboration between the two Au analytical methods and the fact that no other anomalous elements are present suggests that caution should be used when interpreting this anomaly. The area is underlain by tonalitic to granodioritic rocks. As of February 2002, the area was open for staking.

21. Aerobus Lake Au

Site: 8995

Site 8995 returned a value of 12.8 ppb Au(FA) with no corroborating Au(INAA) value. No other elements are anomalous at this site. Some caution is advised. The area is underlain by tonalitic to granodioritic intrusive rocks. As of February 2002, the area was open for staking.

22. West Cedar Lake Au

Sites: 8441, 8443, 8461, 8462

Sites 8441, 8443 and 8461 are located near the northern end of West Cedar Lake. These sites returned values of 11.1, 10.1 and 15.7 ppb Au(FA), respectively. No corroborating values were returned for these sites from the Au(INAA) method. Elevated Zn was returned from site 8441. No other anomalous concentrations of elements occur at these sites. The lack of corroboration between the two Au analytical methods and lack of other anomalous elements suggests that caution should be used when interpreting these anomalies. Site 8462, located 5 km south of 8461 returned a value of 10.9 ppb Au(FA). This value was not duplicated by the Au(INAA) method. Elevated values of Fe, Cu, Ni and V with anomalous values of Cr, K, Mg and Rb were also returned from this site. The LOI (17.23%) for site 8462 indicates a high inorganic content that may be the contributing factor to this anomaly and caution is advised. As of February 2002, the area was open for staking.

23. Ord Lake Au

Sites: 8465, 8474, 8508

Sites 8465, 8474 and 8508 returned values of 13.2, 13.8 and 10.7 ppb Au(FA), respectively. No corroborating Au(INAA) values were returned for these sites. The lake sediment samples collected at these sites were all highly inorganic with LOI values less than 17%. The lack of corroborating Au values and the inorganic nature of the samples suggests that this is a false anomaly and caution is advised when evaluating these anomalies. As of February 2002, the area was open for staking.

Conclusions

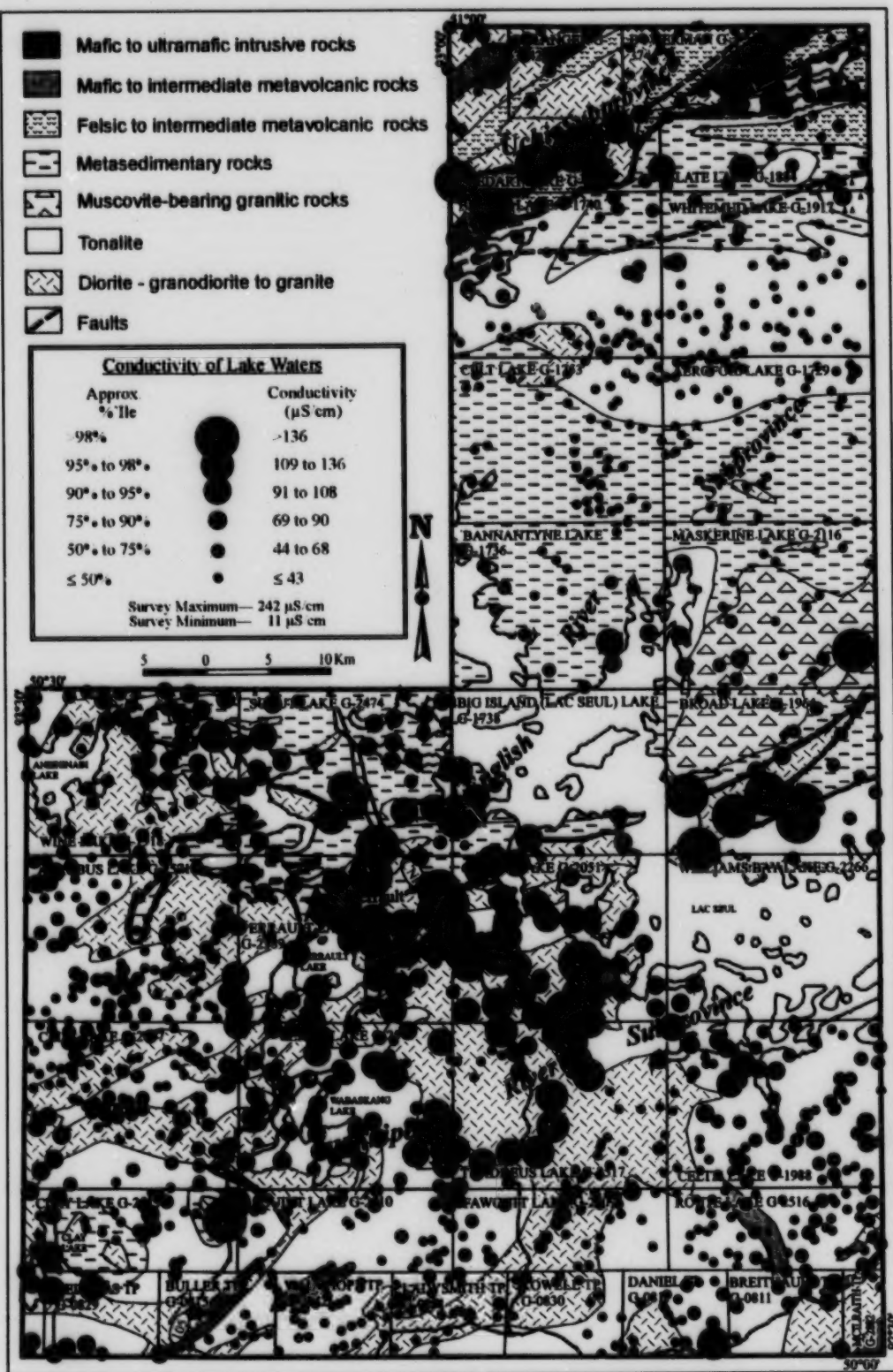
The lake sediment geochemical survey of the Perrault Falls area has identified 23 discrete anomalous areas or locations. The anomalous elements include: Au, Pt, Pd, Cu, Ni, Cr, Pb, Zn, Cd, Co, Mo, Li and REEs. The results of this survey have generated several new targets for potential precious and base metal mineralization in the Perrault Falls area. As of February 2002, many of the anomalous areas outlined in this report were available for staking.

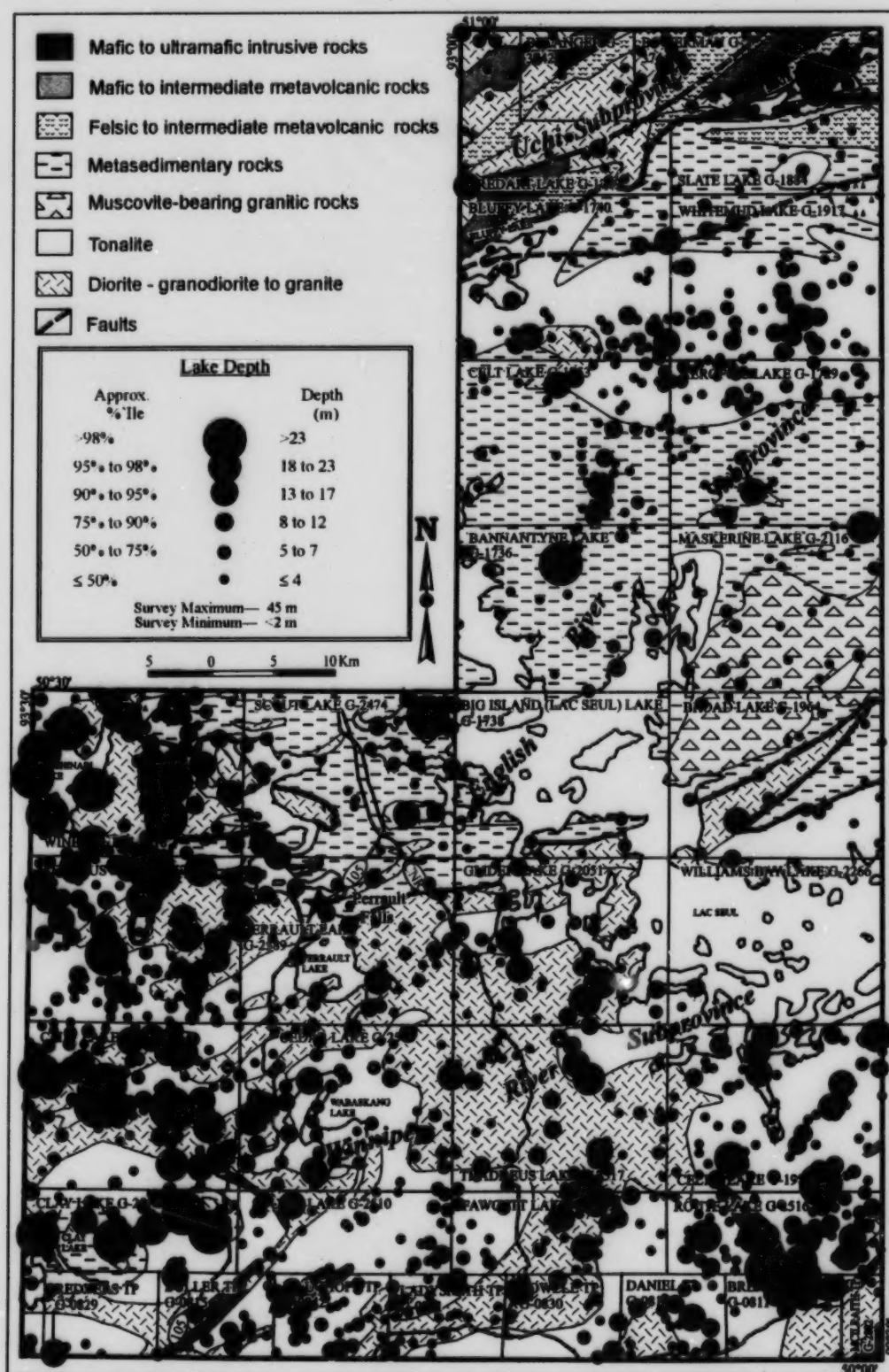
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APPENDIX A

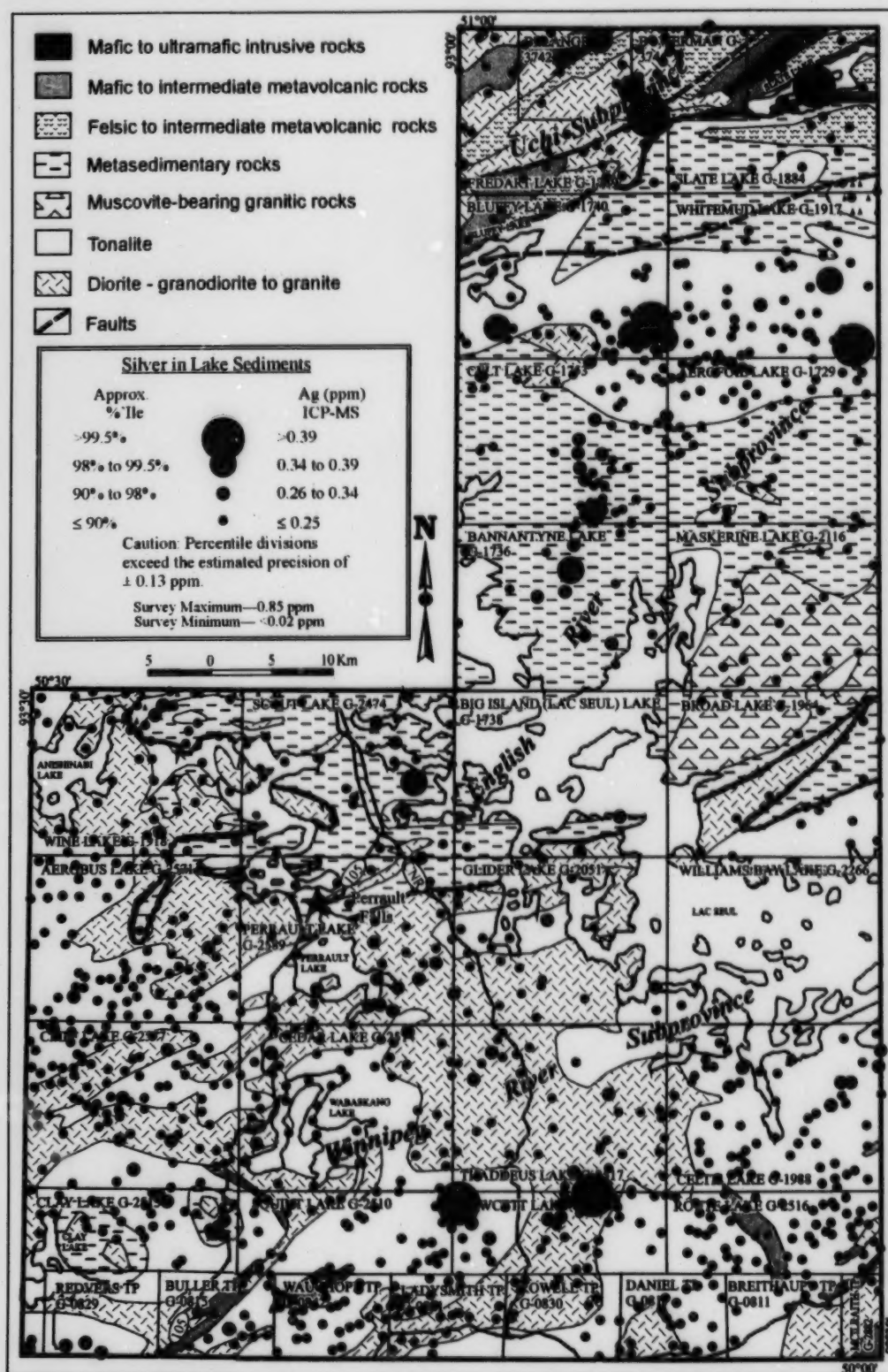
**Proportional dot maps of pH, conductivity and depth
of lake waters**

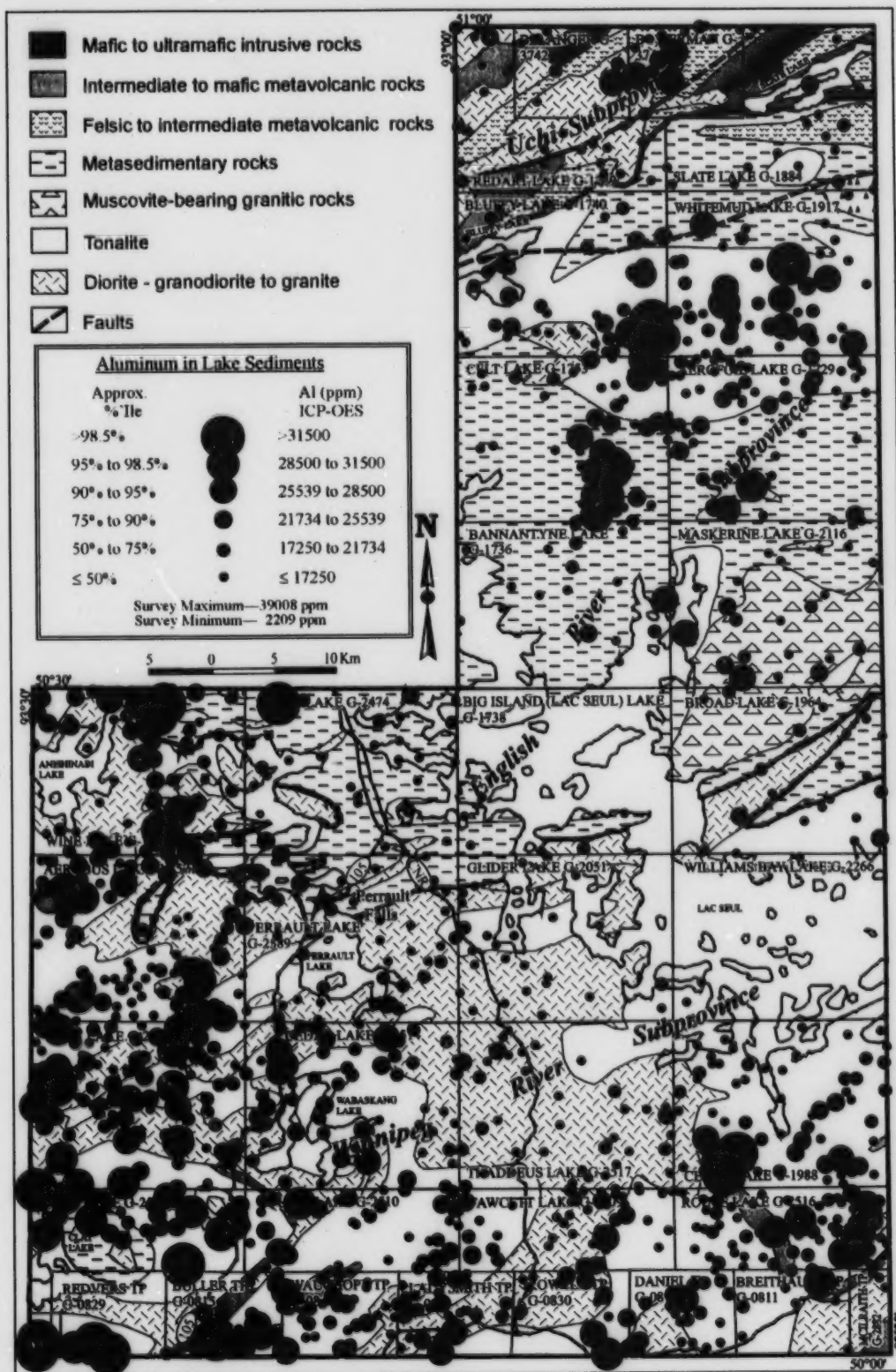


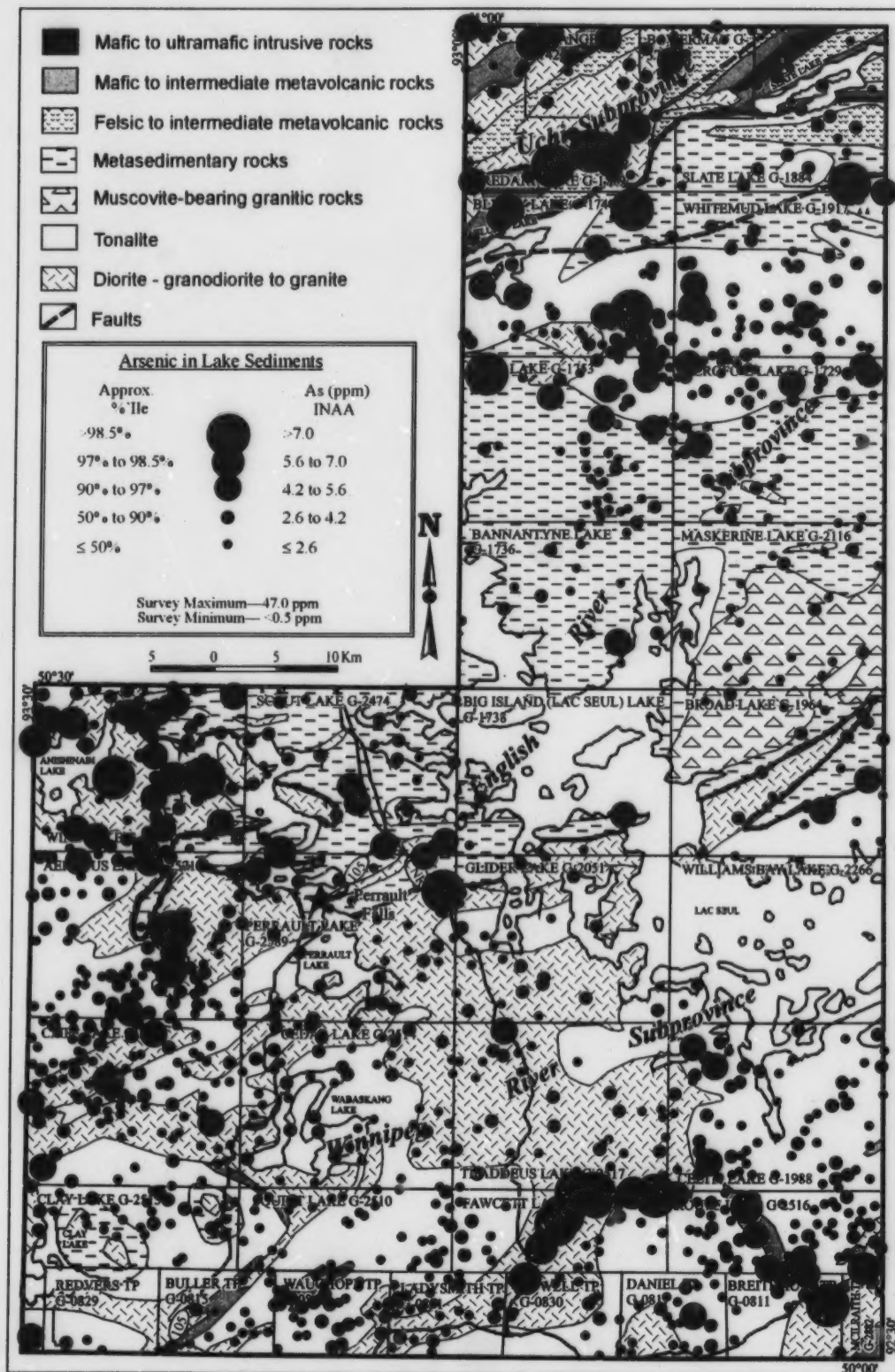


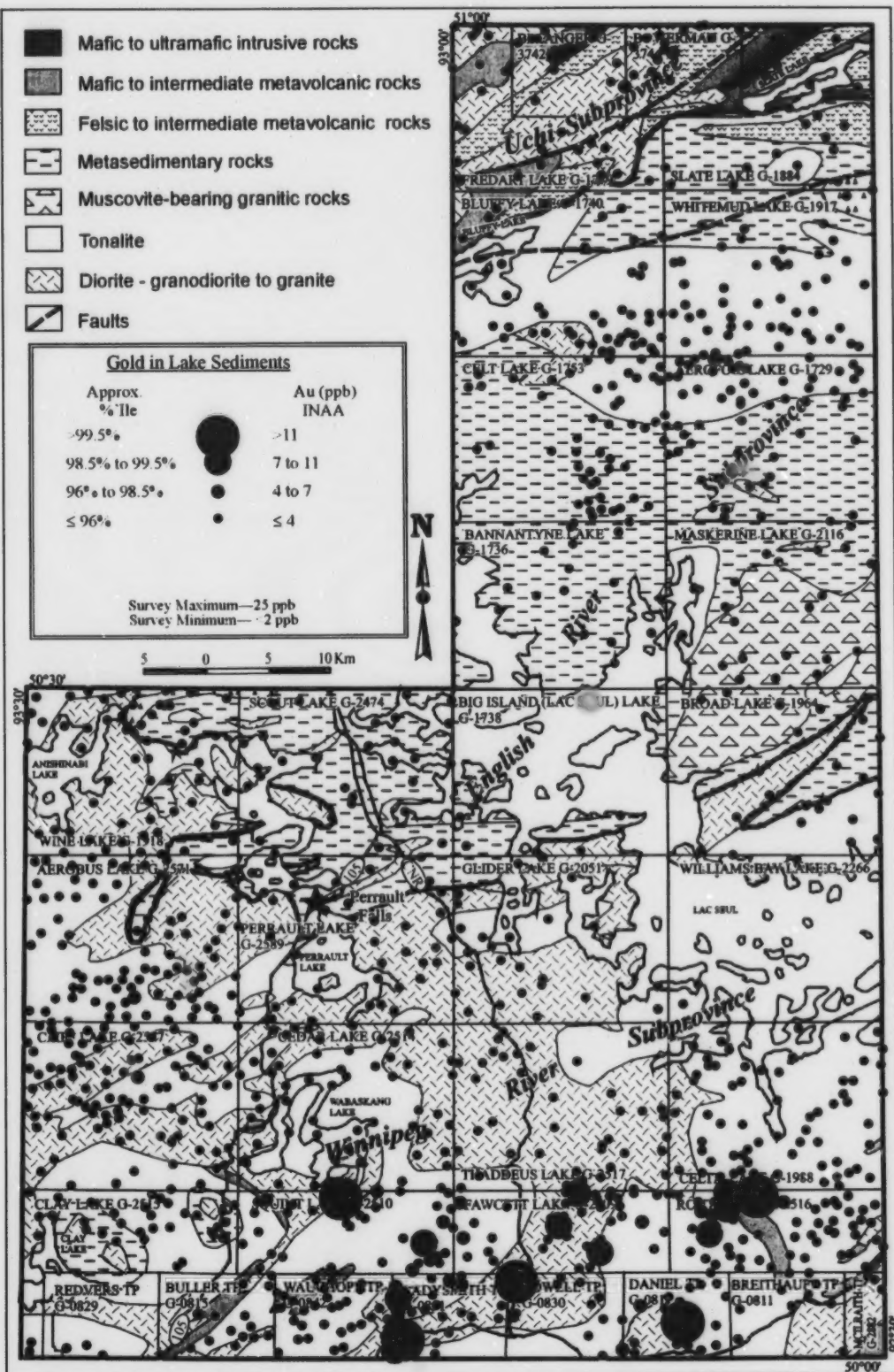
APPENDIX B

Proportional dot maps of Ag, Al, As, Au(INAA), Au(FA),
Ba, Be, Ca, Cd, Co, Cr, Cs, Cu, Fe, K, Li, LOI, Mg, Mn,
Mo, Ni, P, Pb, Pd, Pt, Rb, REEs, Sb, Sc, Sn, Sr, Ta, Th, Ti,
U, V, W and Zn in lake sediments









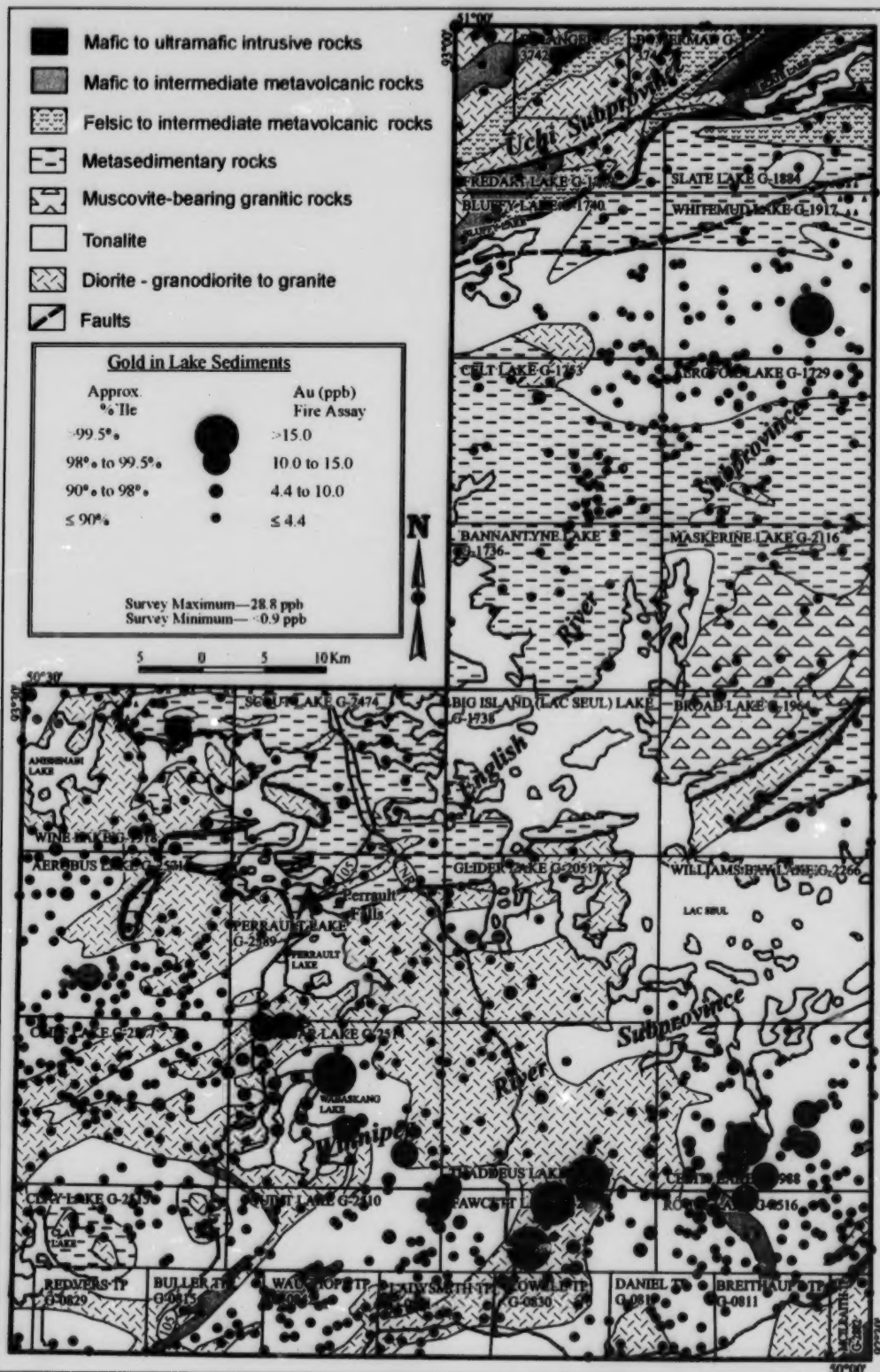
-  Mafic to ultramafic intrusive rocks
-  Mafic to intermediate metavolcanic rocks
-  Felsic to intermediate metavolcanic rocks
-  Metasedimentary rocks
-  Muscovite-bearing granitic rocks
-  Tonalite
-  Diorite - granodiorite to granite
-  Faults

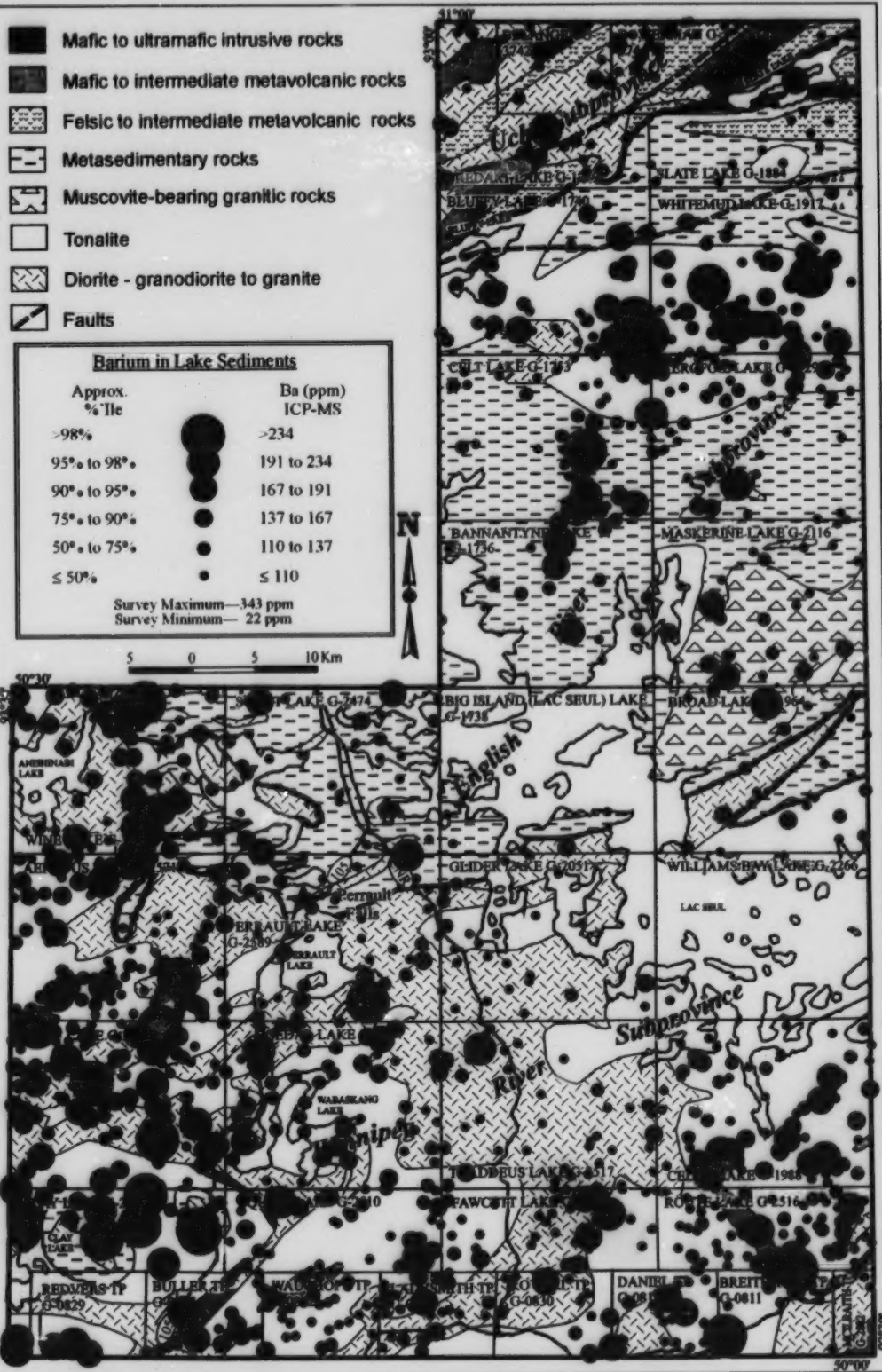
Gold in Lake Sediments

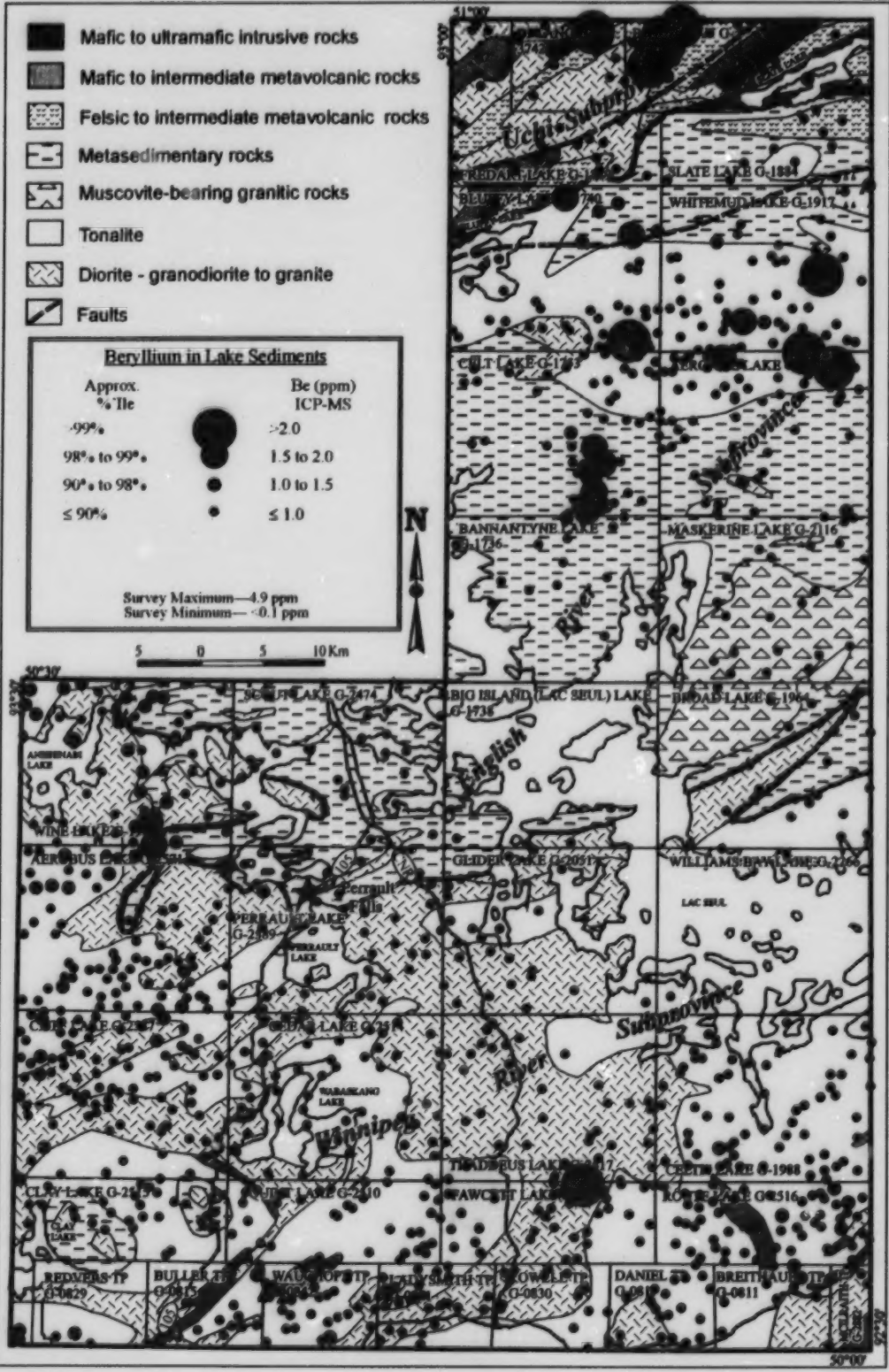
Approx. %Tie		Au (ppb) Fire Assay
>99.5%		>15.0
98% to 99.5%		10.0 to 15.0
90% to 98%		4.4 to 10.0
≤ 90%		≤ 4.4

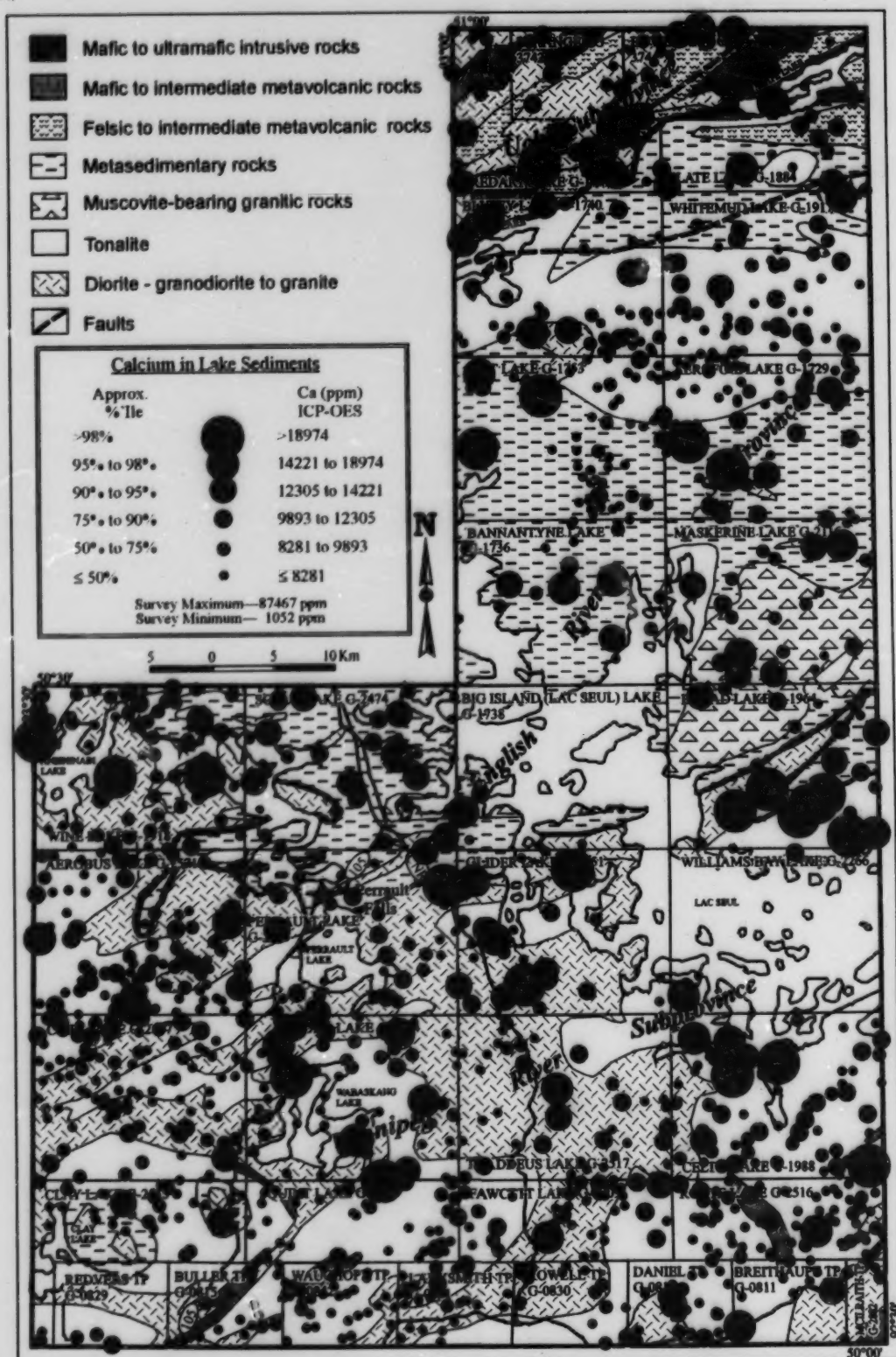
Survey Maximum—28.8 ppb
Survey Minimum—0.9 ppb

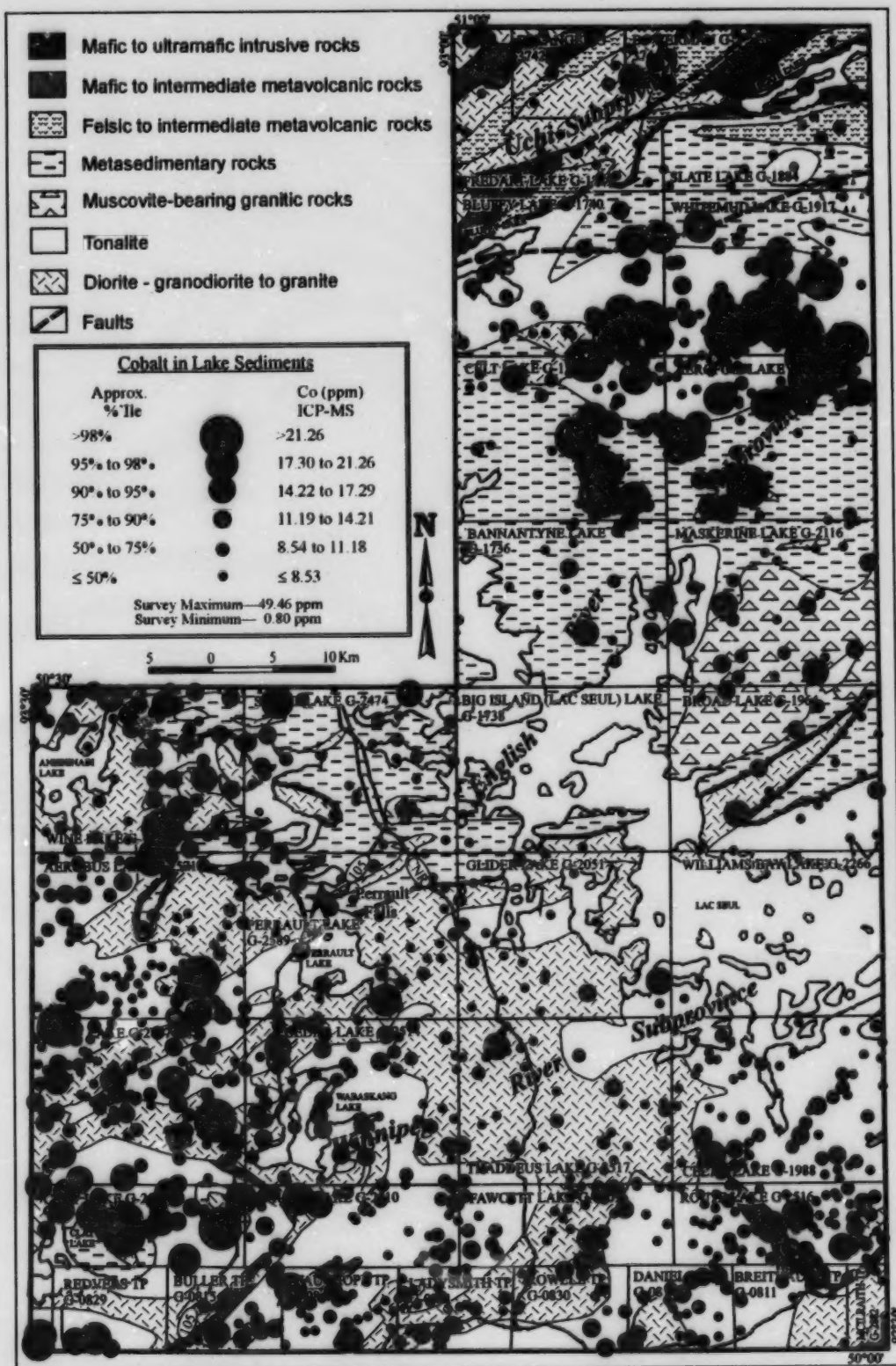
5 0 5 10 Km

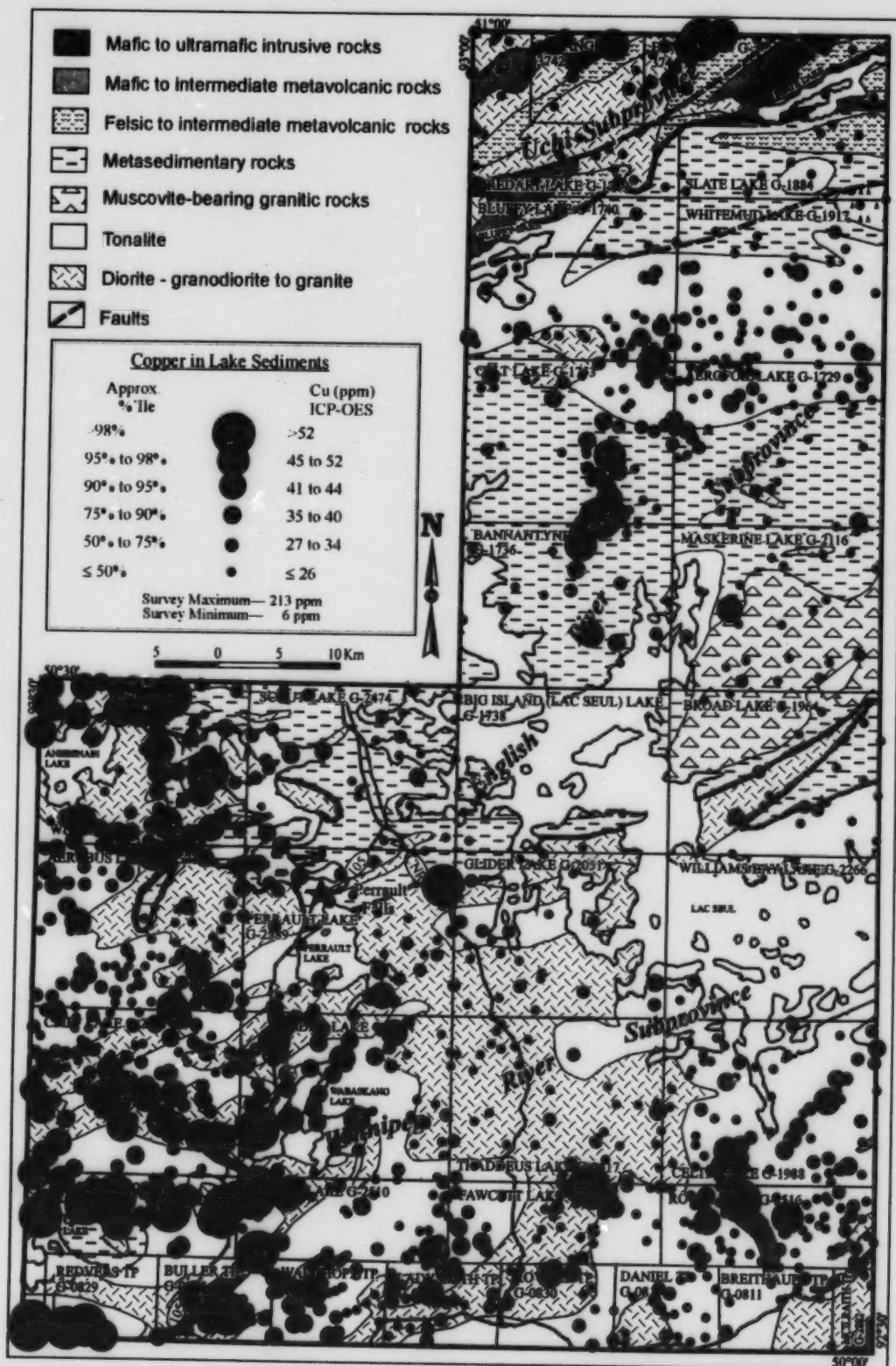


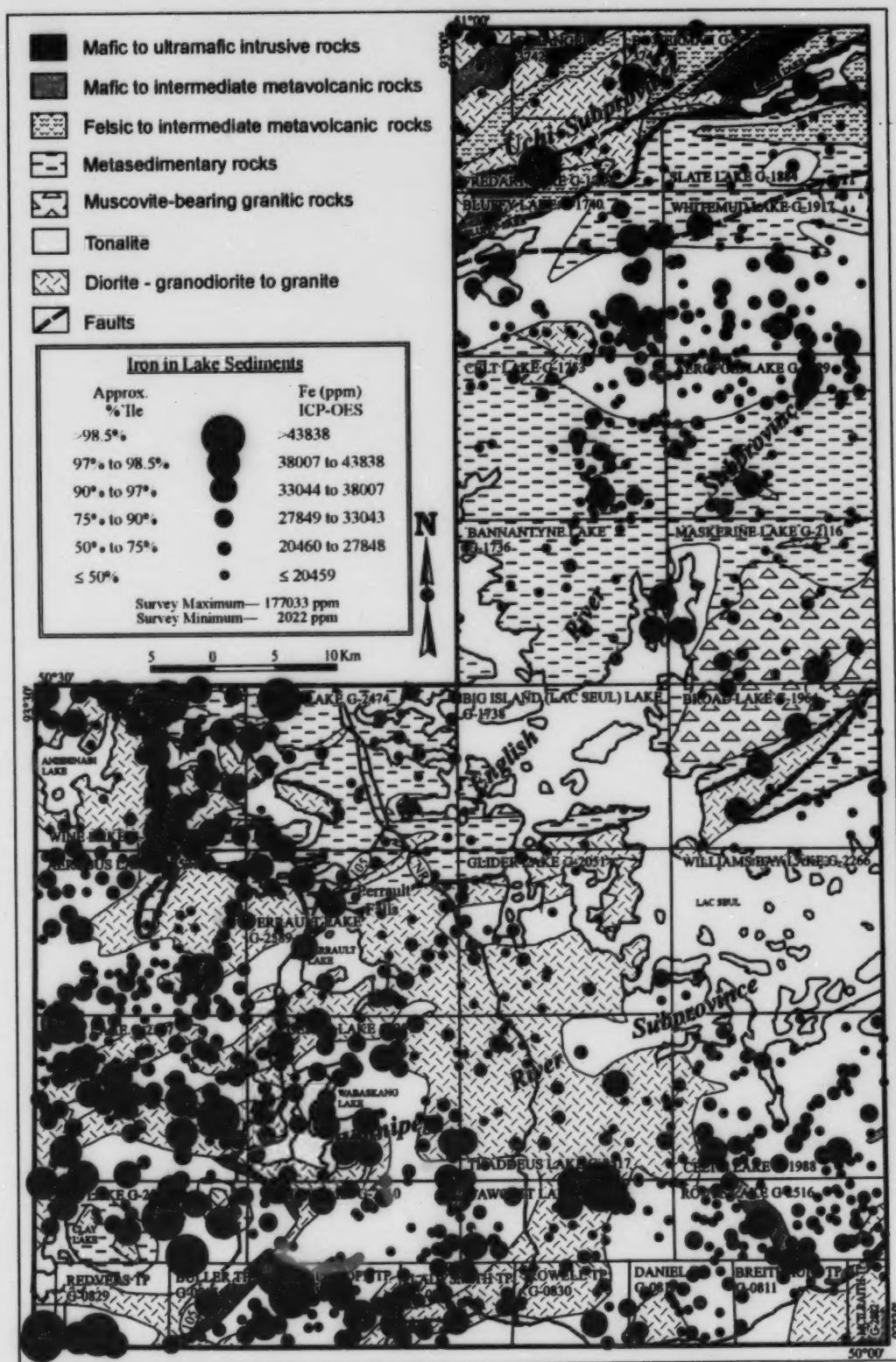


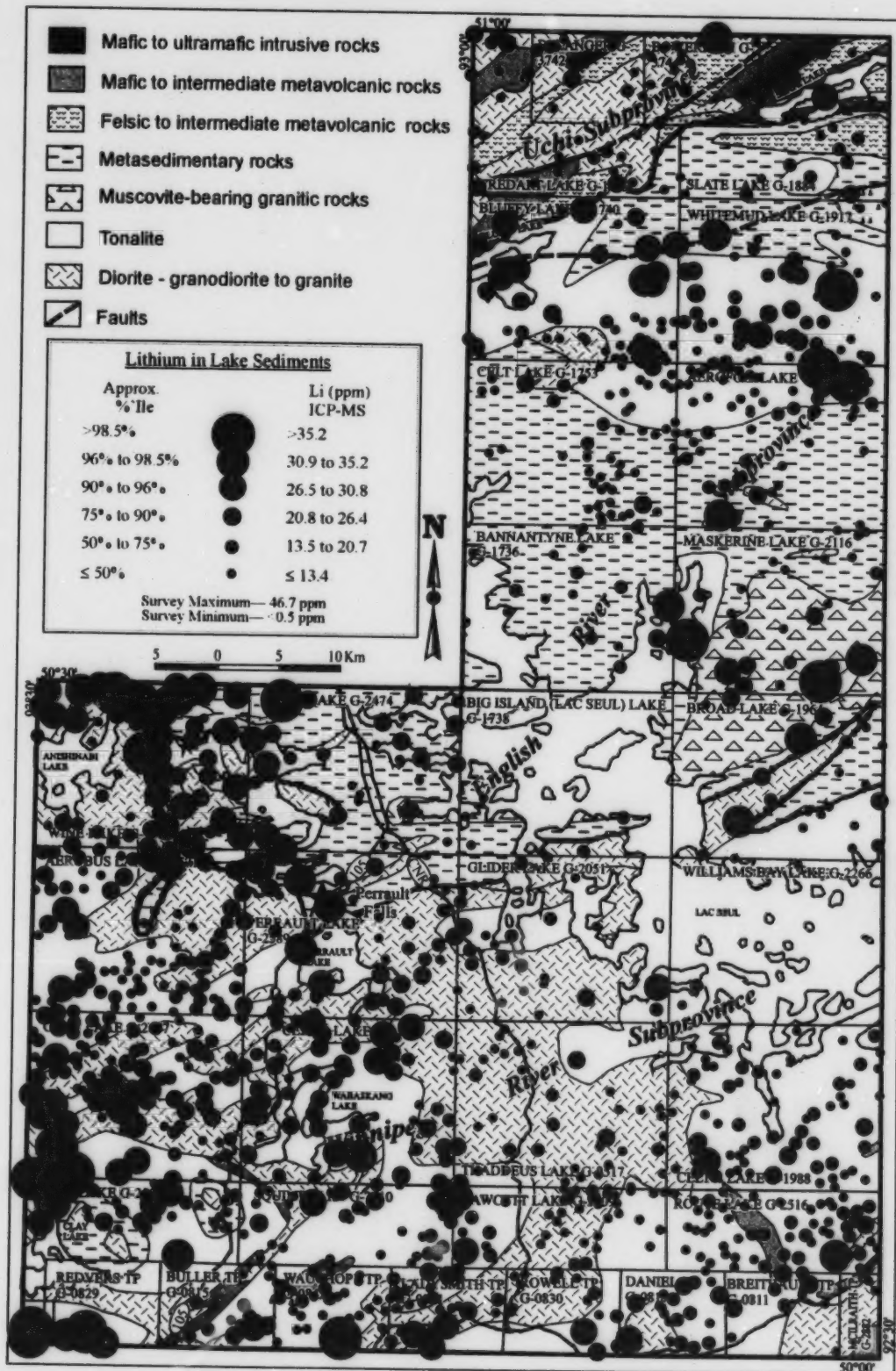


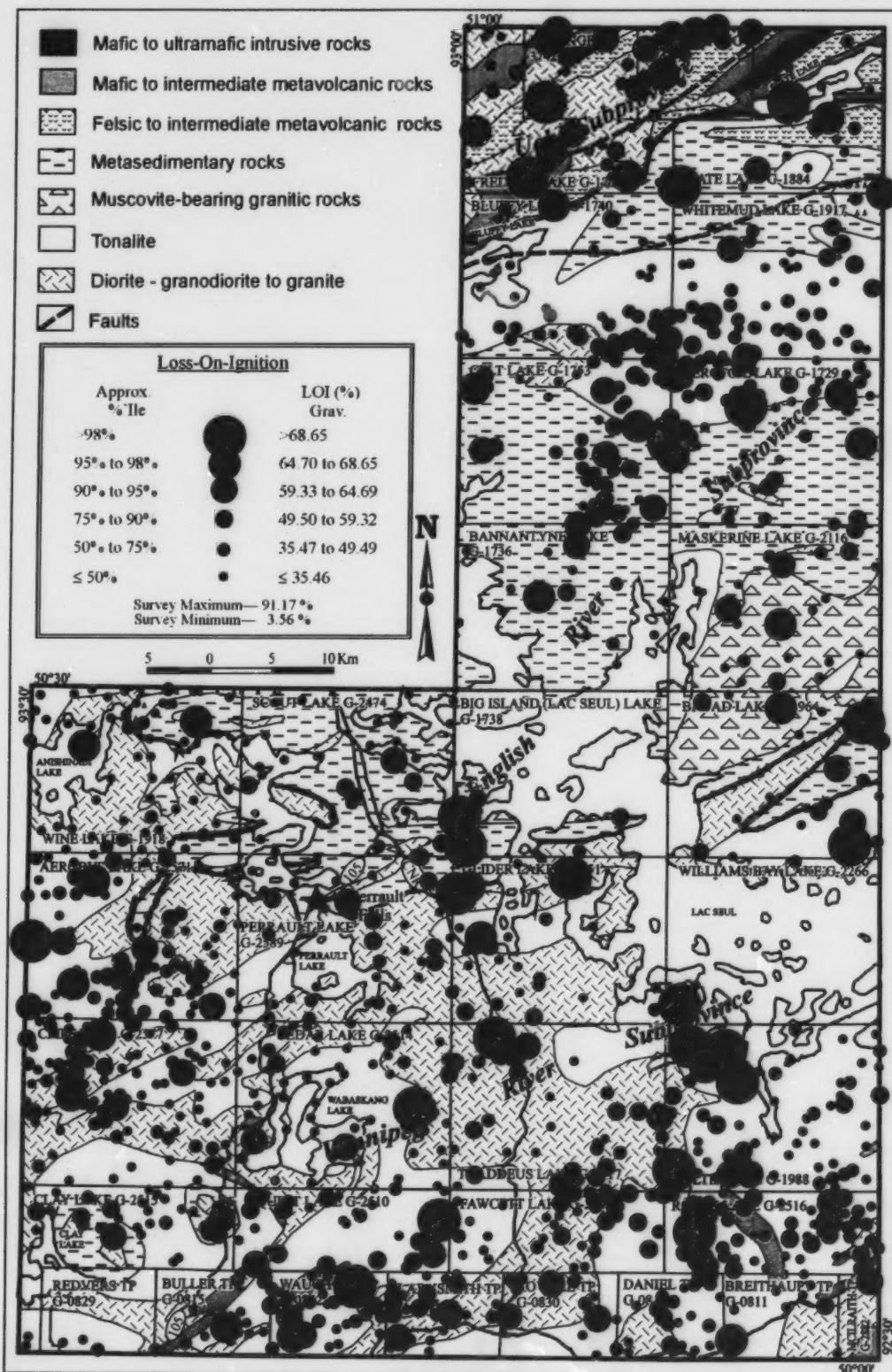


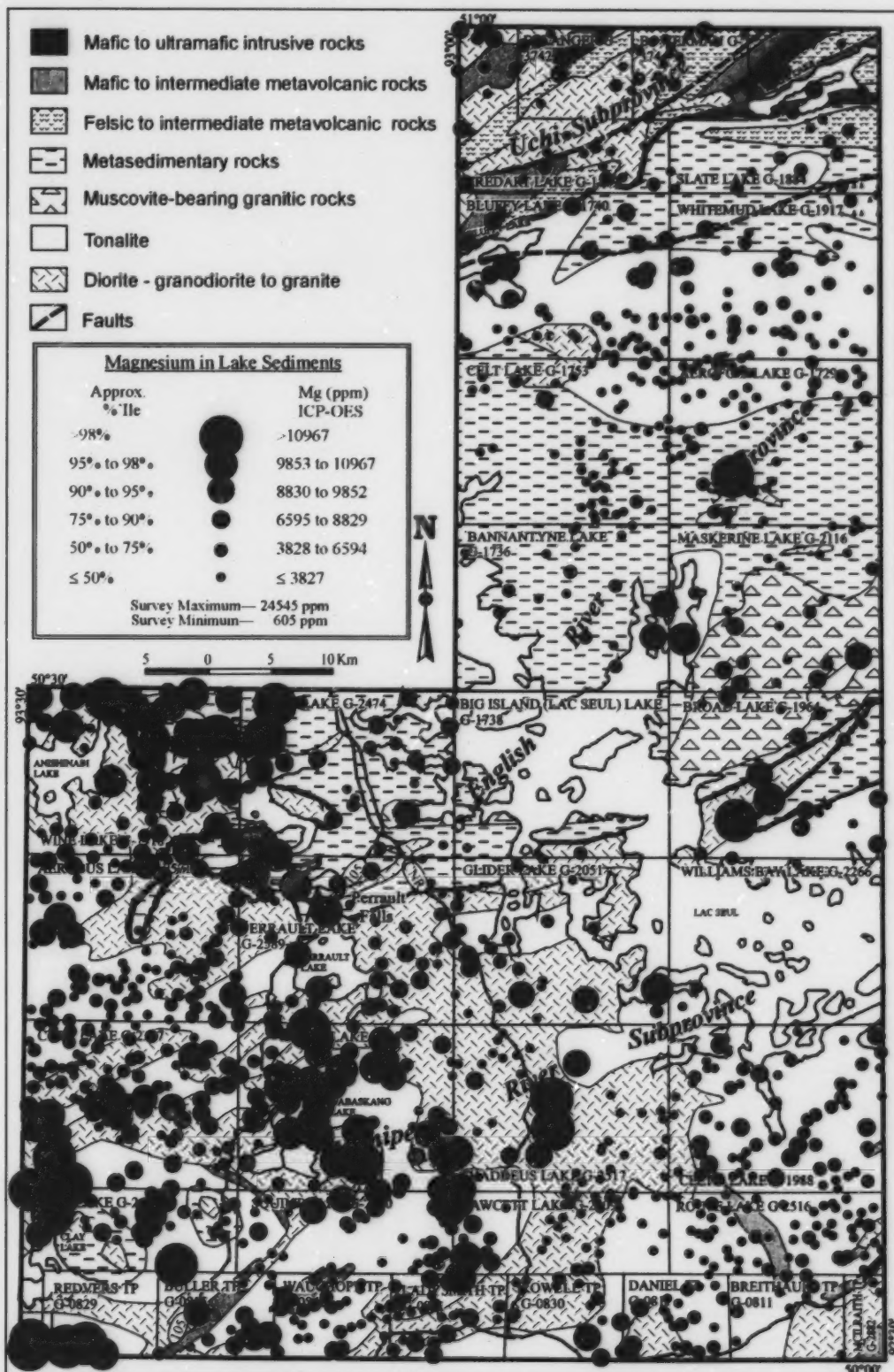


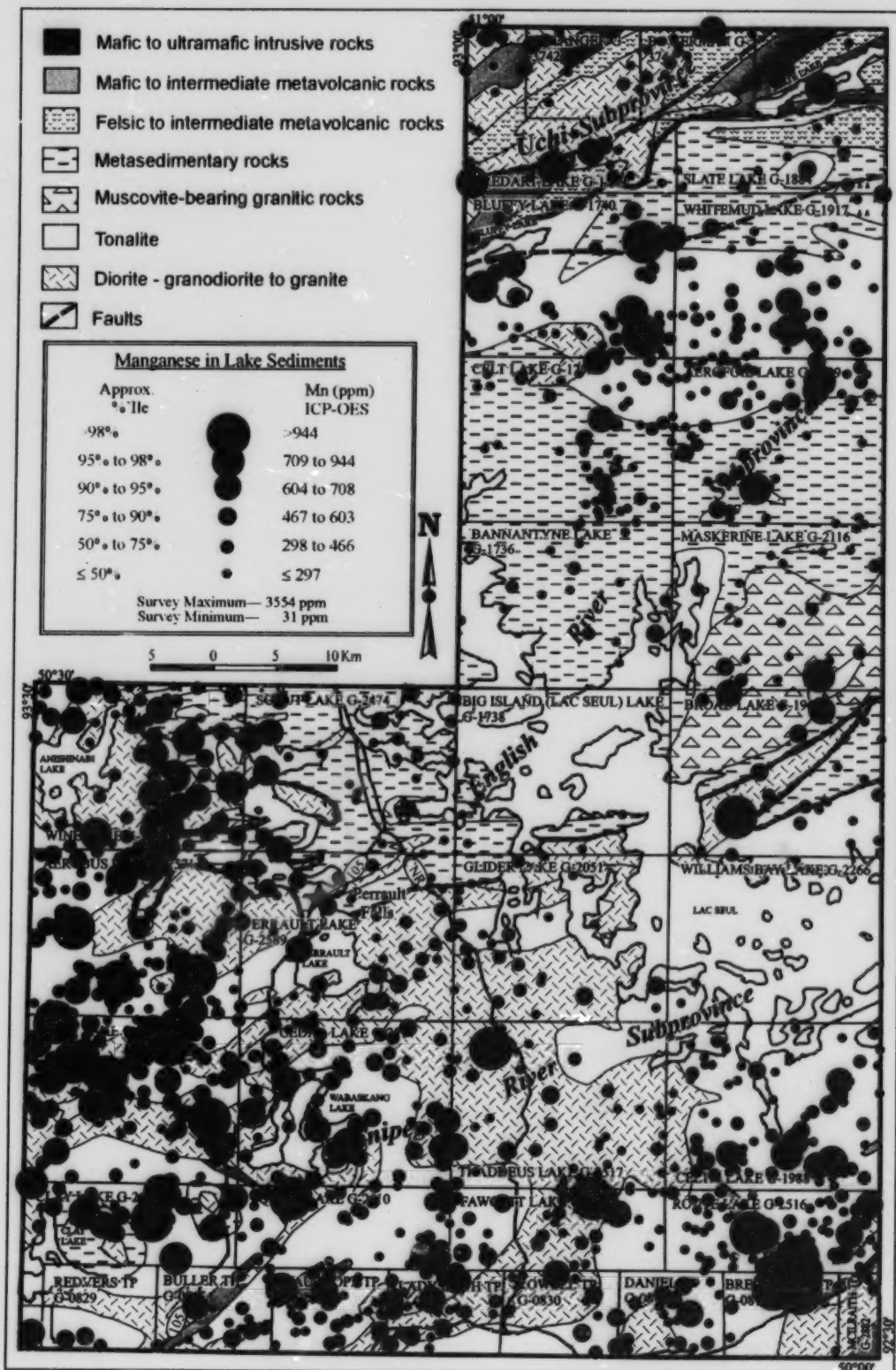












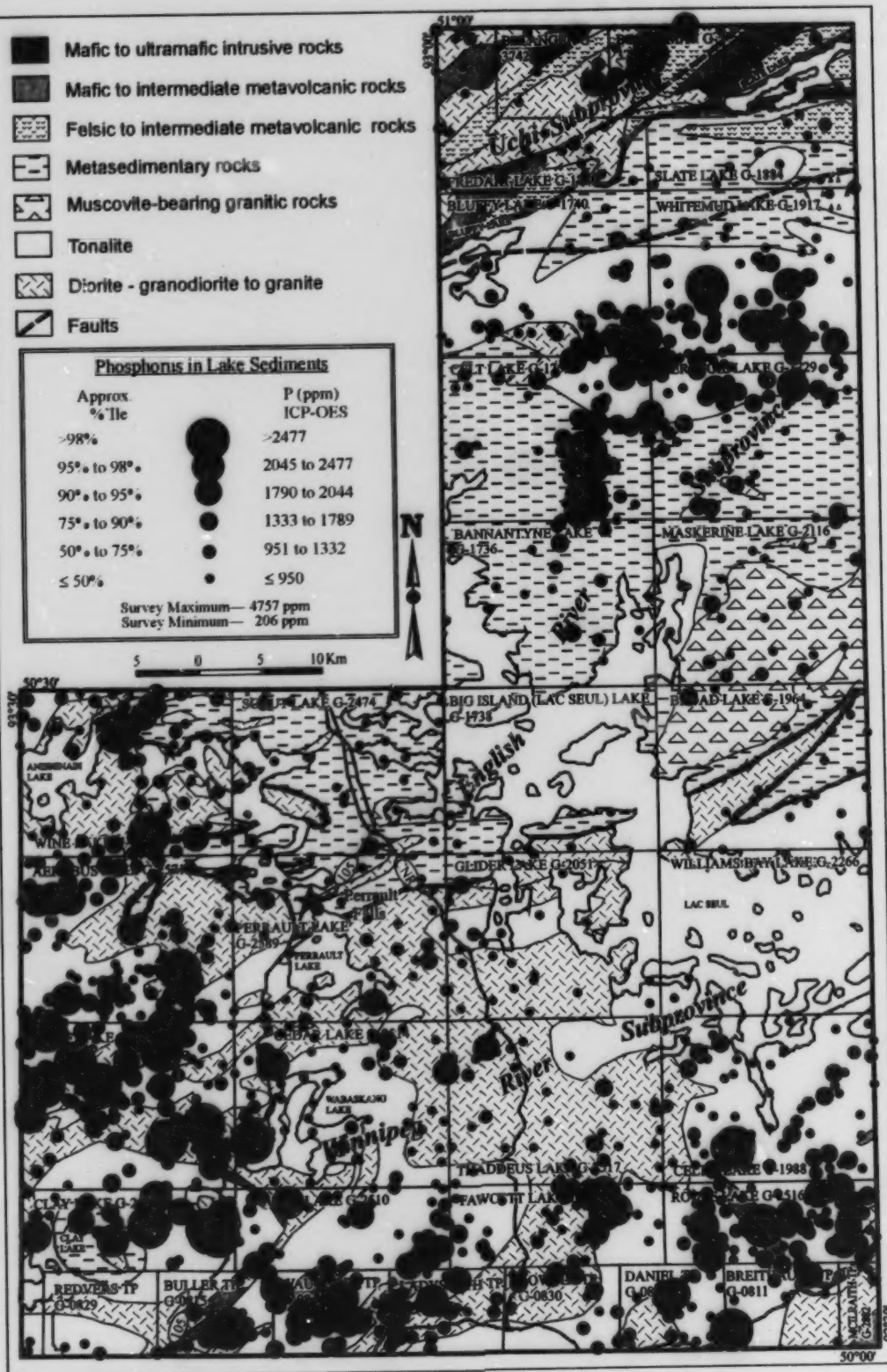
-  Mafic to ultramafic intrusive rocks
-  Mafic to intermediate metavolcanic rocks
-  Felsic to intermediate metavolcanic rocks
-  Metasedimentary rocks
-  Muscovite-bearing granitic rocks
-  Tonalite
-  Diorite - granodiorite to granite
-  Faults

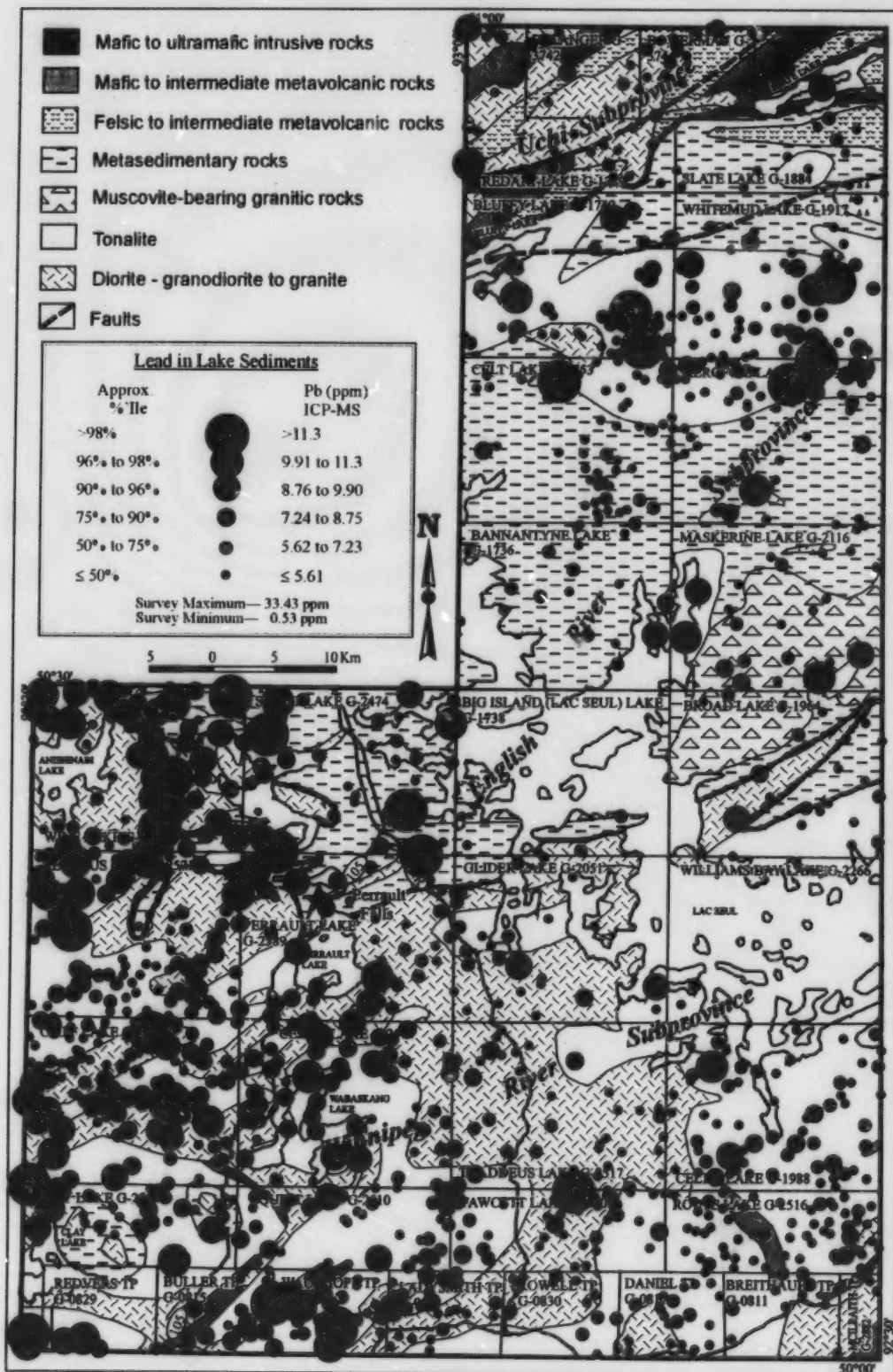
Phosphorus in Lake Sediments

Approx %Ile		P (ppm) ICP-OES
>98%		>2477
95% to 98%		2045 to 2477
90% to 95%		1790 to 2044
75% to 90%		1333 to 1789
50% to 75%		951 to 1332
≤ 50%		≤ 950

Survey Maximum— 4757 ppm
Survey Minimum— 206 ppm

5 0 5 10 Km





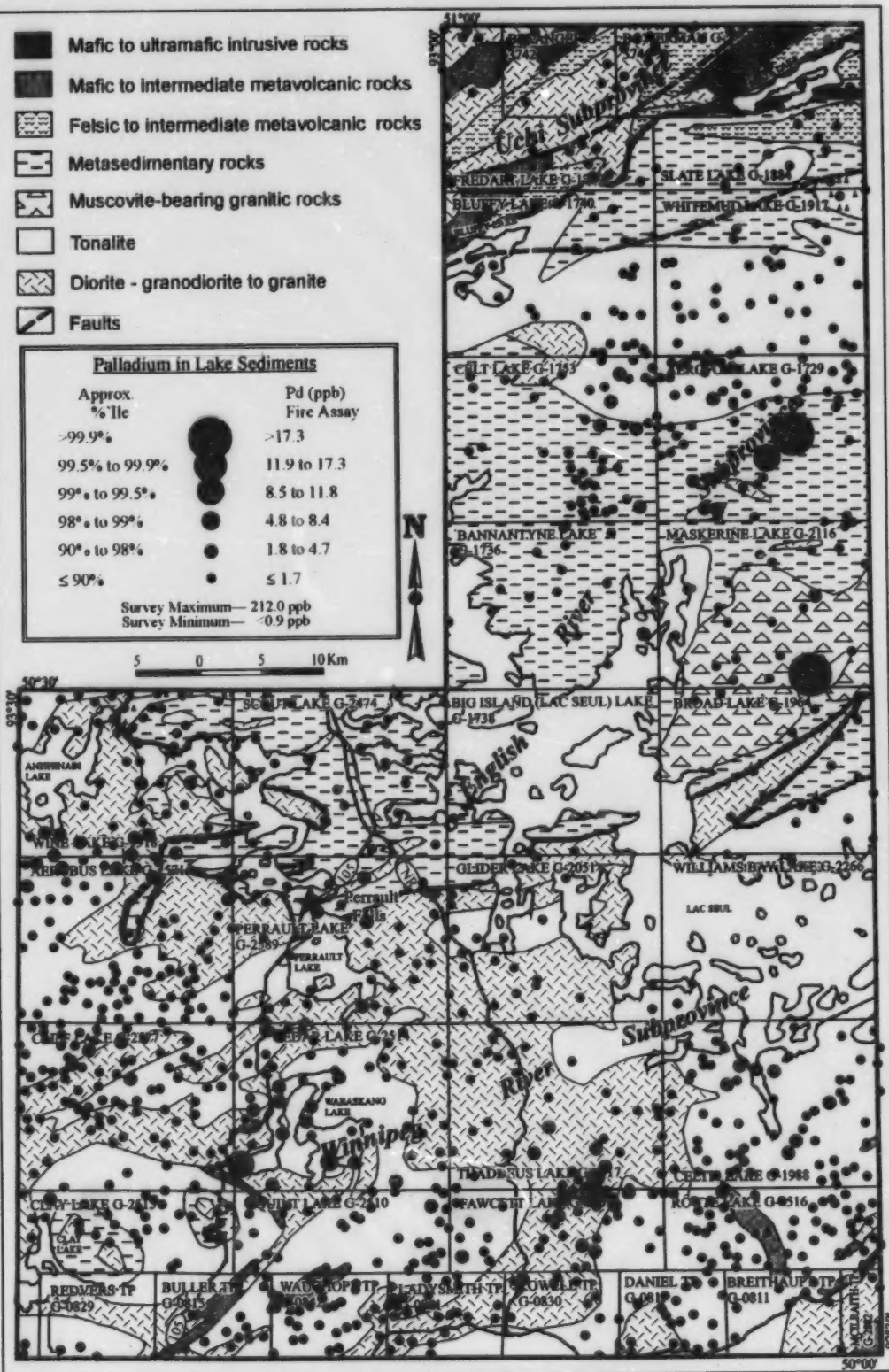
-  Mafic to ultramafic intrusive rocks
-  Mafic to intermediate metavolcanic rocks
-  Felsic to intermediate metavolcanic rocks
-  Metasedimentary rocks
-  Muscovite-bearing granitic rocks
-  Tonalite
-  Diorite - granodiorite to granite
-  Faults

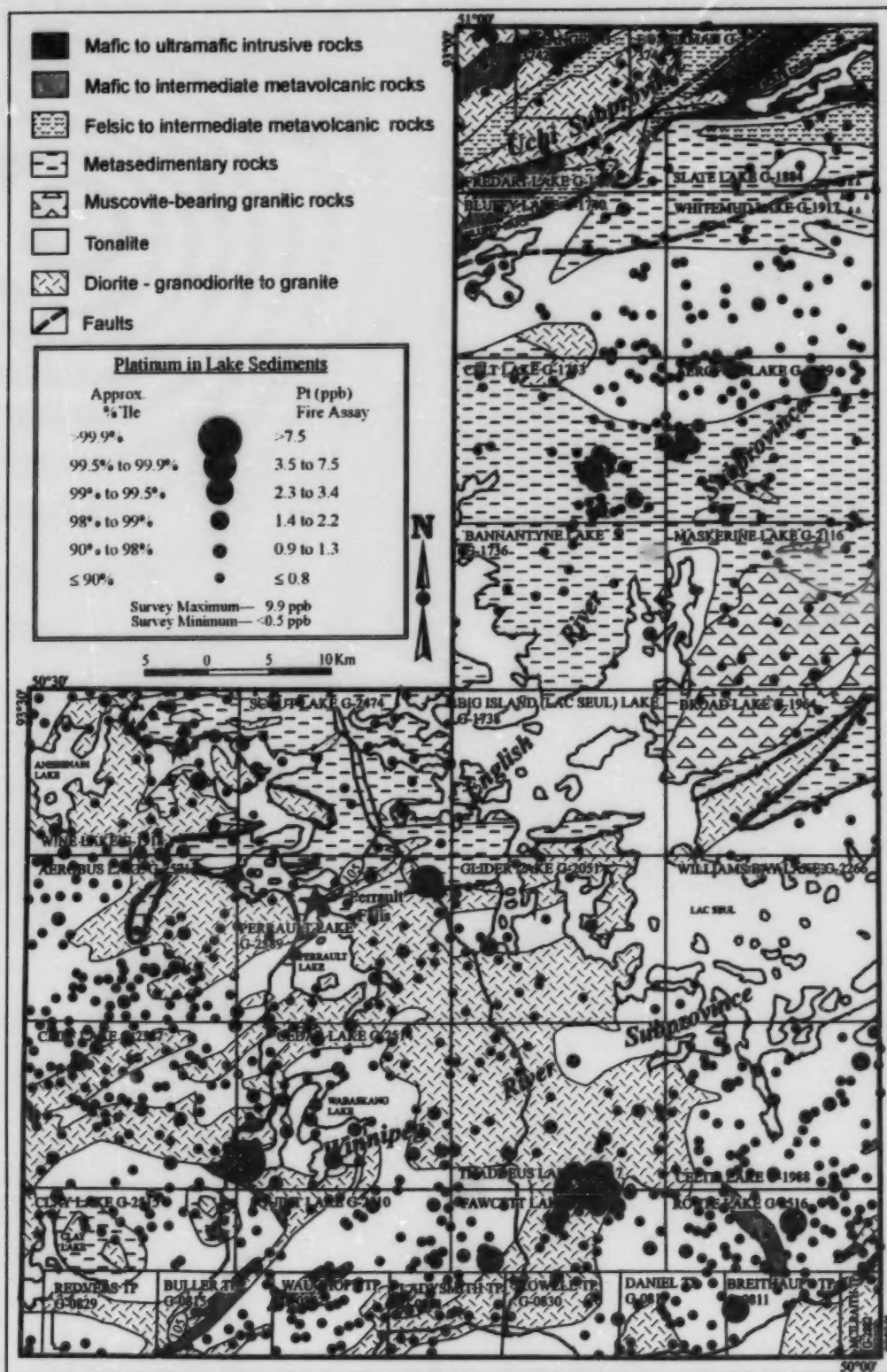
Palladium in Lake Sediments

Approx %Ile		Pd (ppb) Fire Assay
>99.9%		>17.3
99.5% to 99.9%		11.9 to 17.3
99% to 99.5%		8.5 to 11.8
98% to 99%		4.8 to 8.4
90% to 98%		1.8 to 4.7
≤ 90%		≤ 1.7

Survey Maximum—212.0 ppb
Survey Minimum—0.9 ppb

5 0 5 10 Km





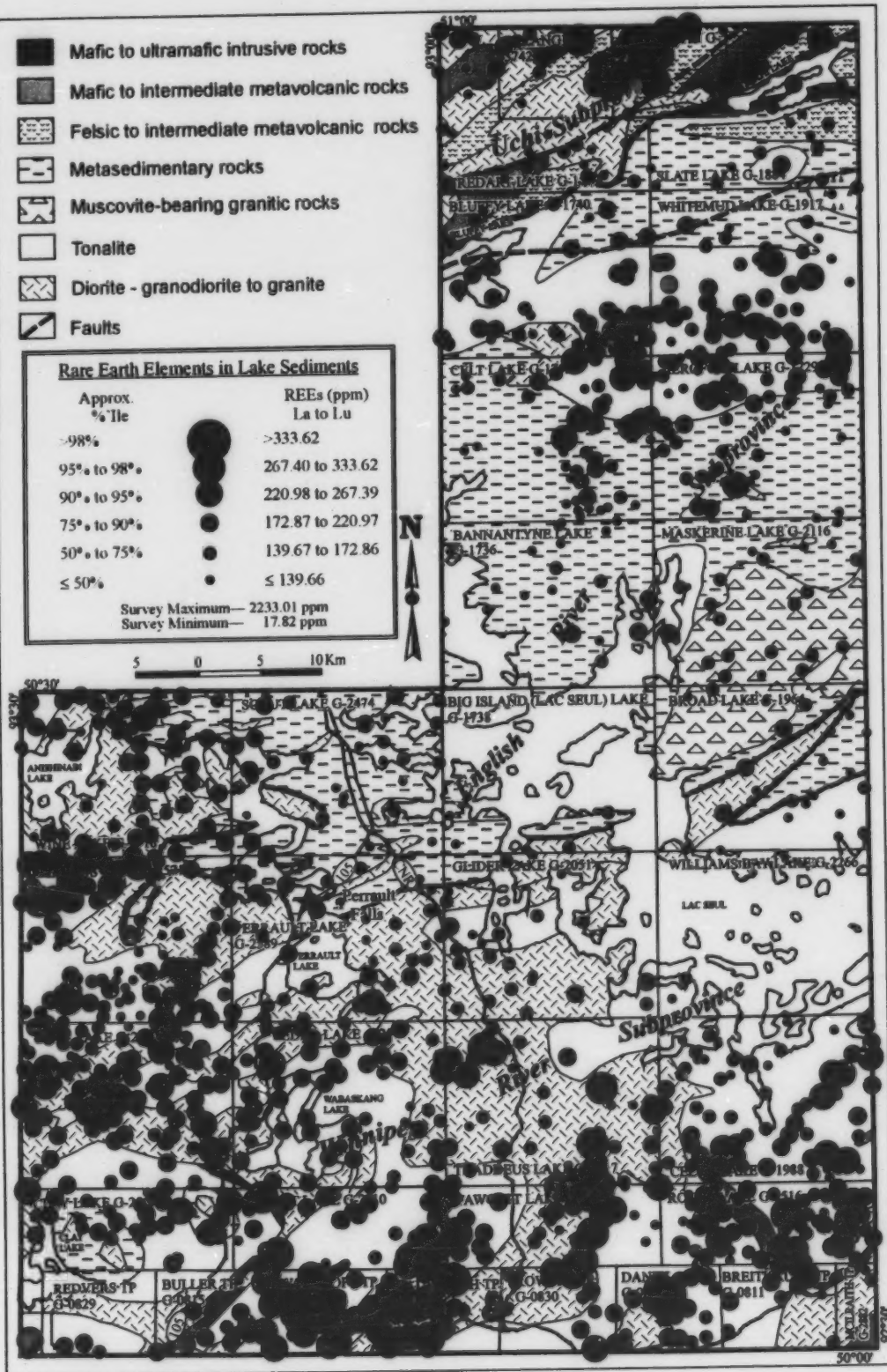
-  Mafic to ultramafic intrusive rocks
-  Mafic to intermediate metavolcanic rocks
-  Felsic to intermediate metavolcanic rocks
-  Metasedimentary rocks
-  Muscovite-bearing granitic rocks
-  Tonalite
-  Diorite - granodiorite to granite
-  Faults

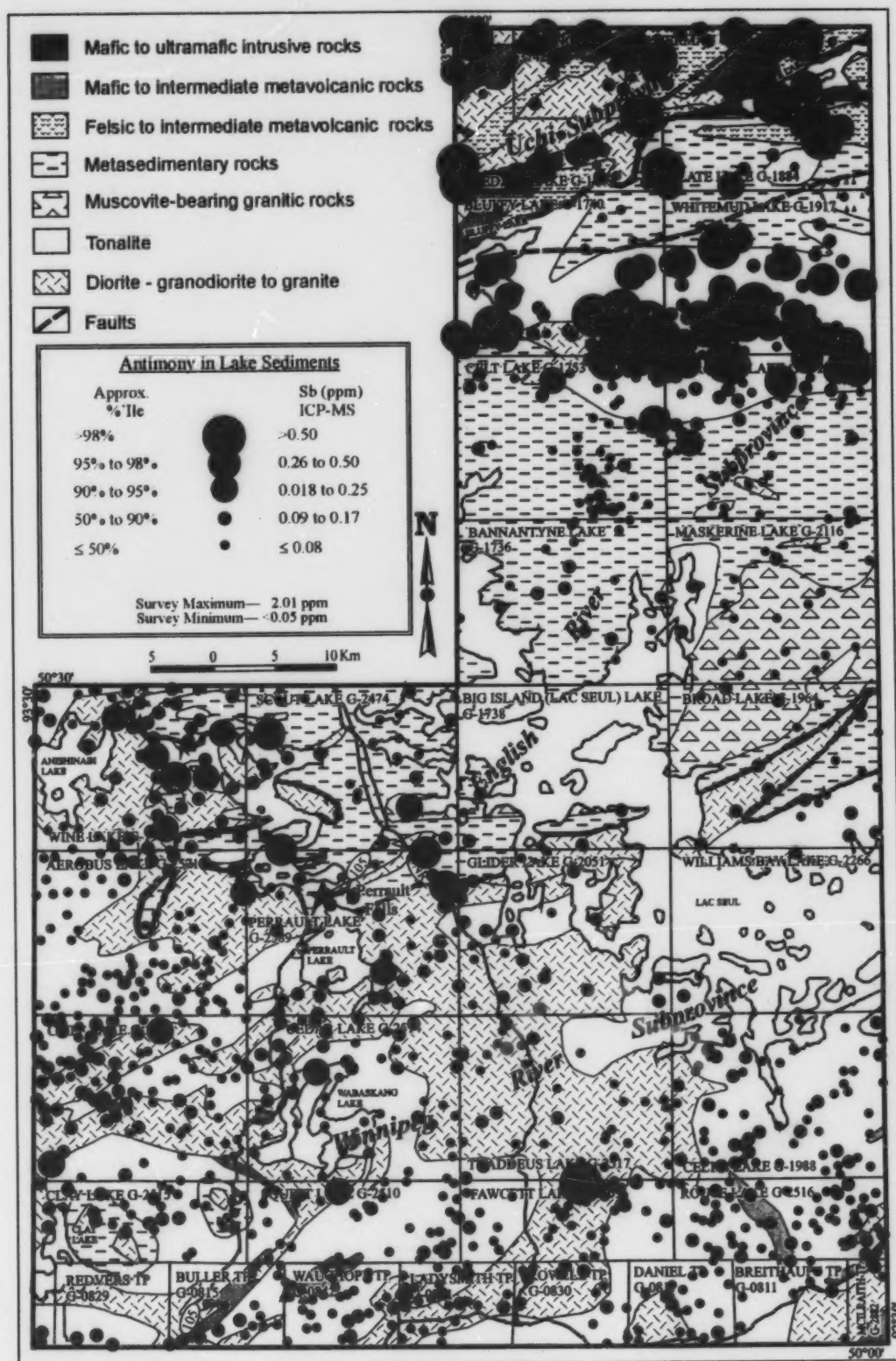
Rare Earth Elements in Lake Sediments

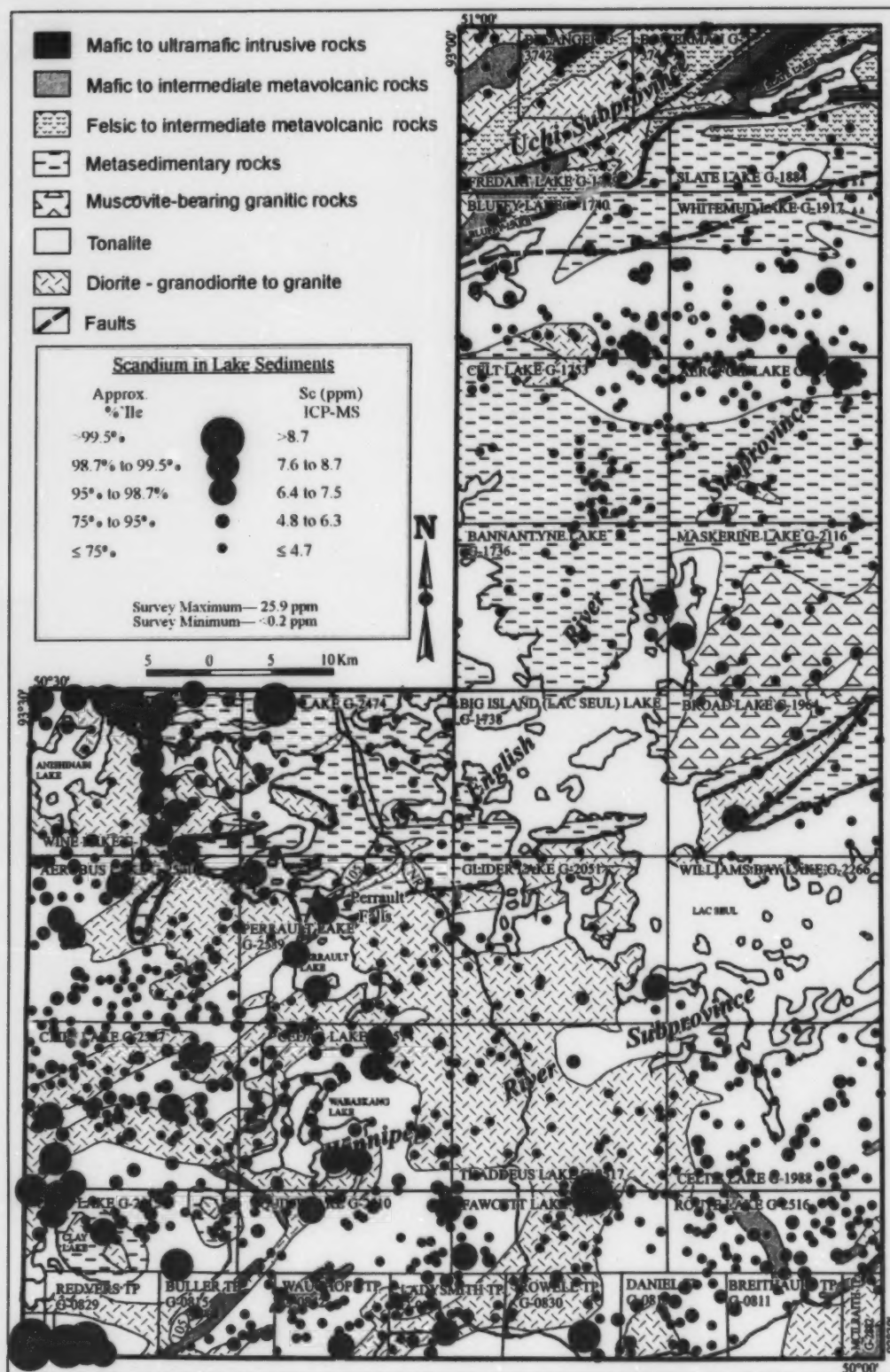
Approx. % Ille	REEs (ppm) La to Lu
>98%	>333.62
95% to 98%	267.40 to 333.62
90% to 95%	220.98 to 267.39
75% to 90%	172.87 to 220.97
50% to 75%	139.67 to 172.86
≤ 50%	≤ 139.66

Survey Maximum— 2233.01 ppm
Survey Minimum— 17.82 ppm

5 0 5 10 Km







- Mafic to ultramafic intrusive rocks
- Mafic to intermediate metavolcanic rocks
- Felsic to intermediate metavolcanic rocks
- Metasedimentary rocks
- Muscovite-bearing granitic rocks
- Tonalite
- Diorite - granodiorite to granite
- Faults

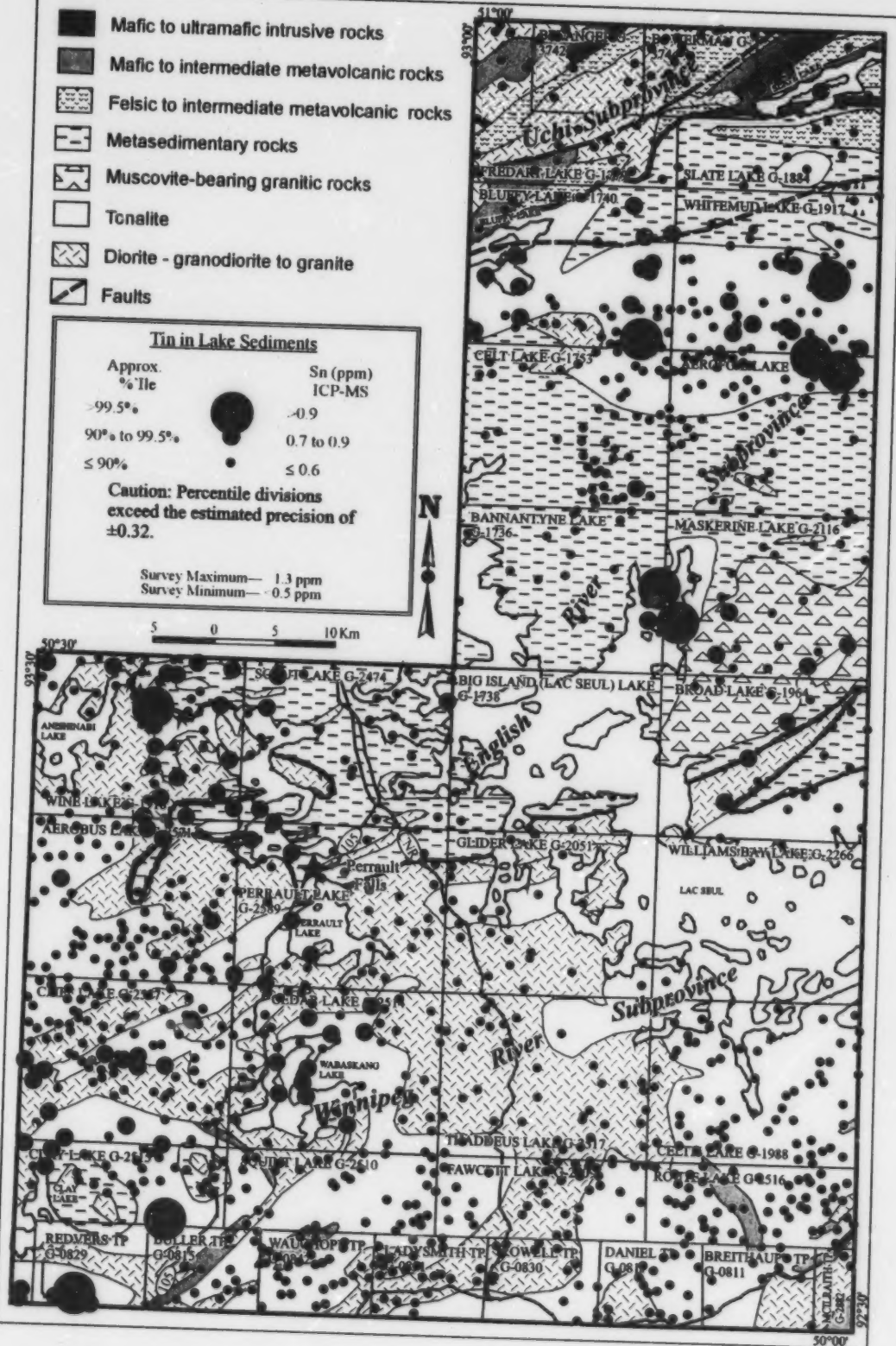
Tin in Lake Sediments

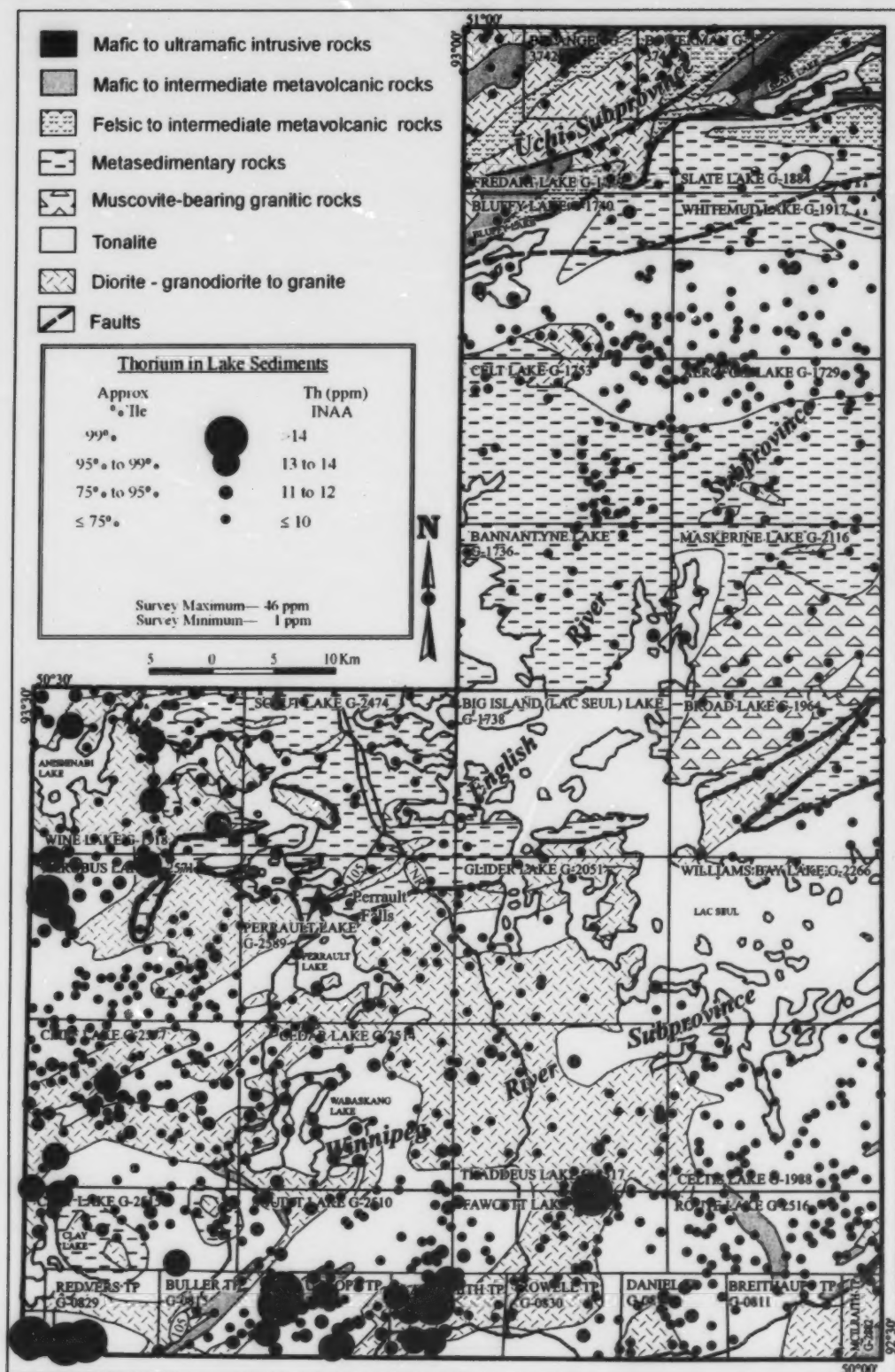
Approx. %Tle	Sn (ppm) ICP-MS
>99.5%	>0.9
90% to 99.5%	0.7 to 0.9
≤ 90%	≤ 0.6

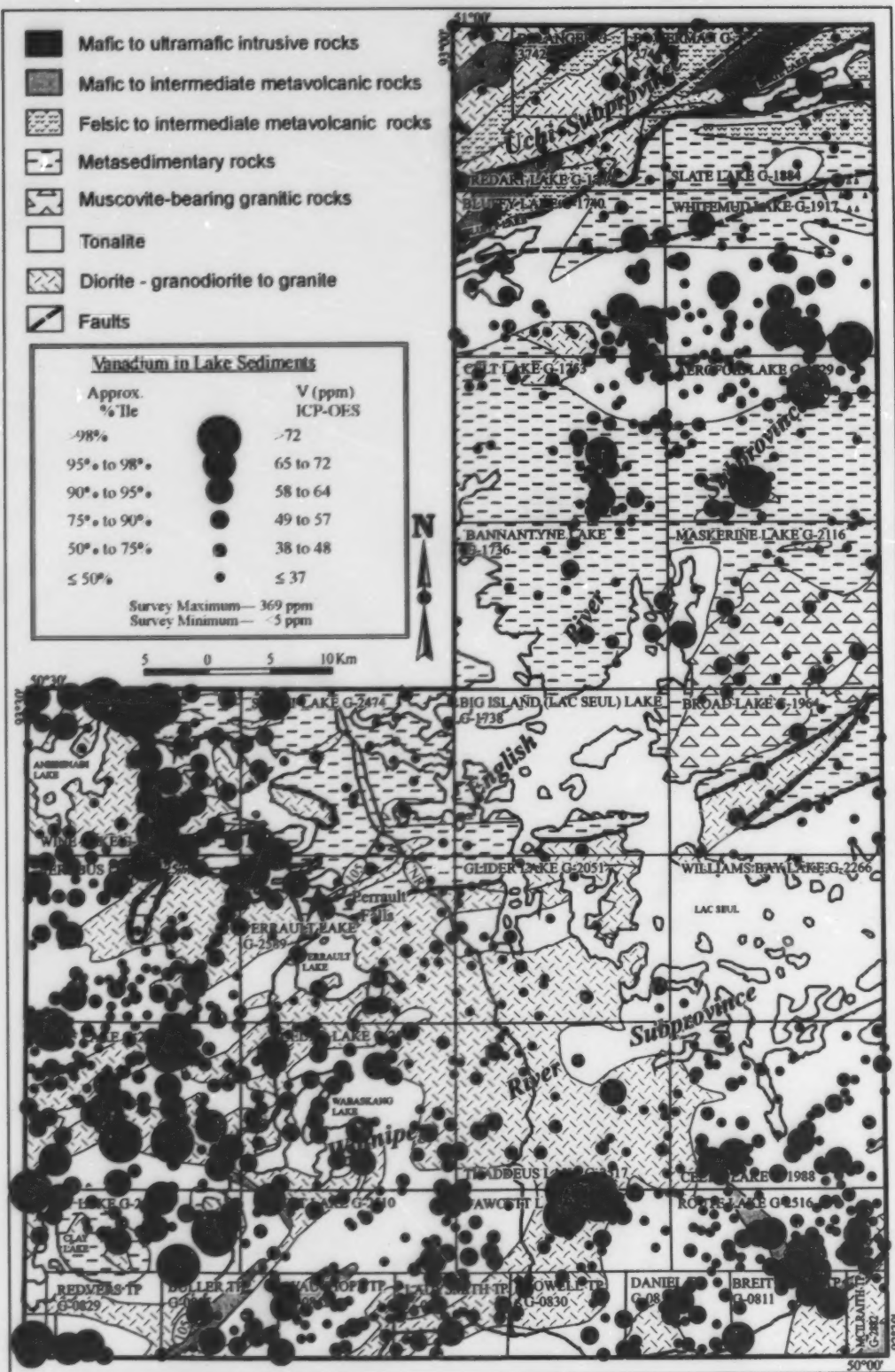
Caution: Percentile divisions
exceed the estimated precision of
±0.32.

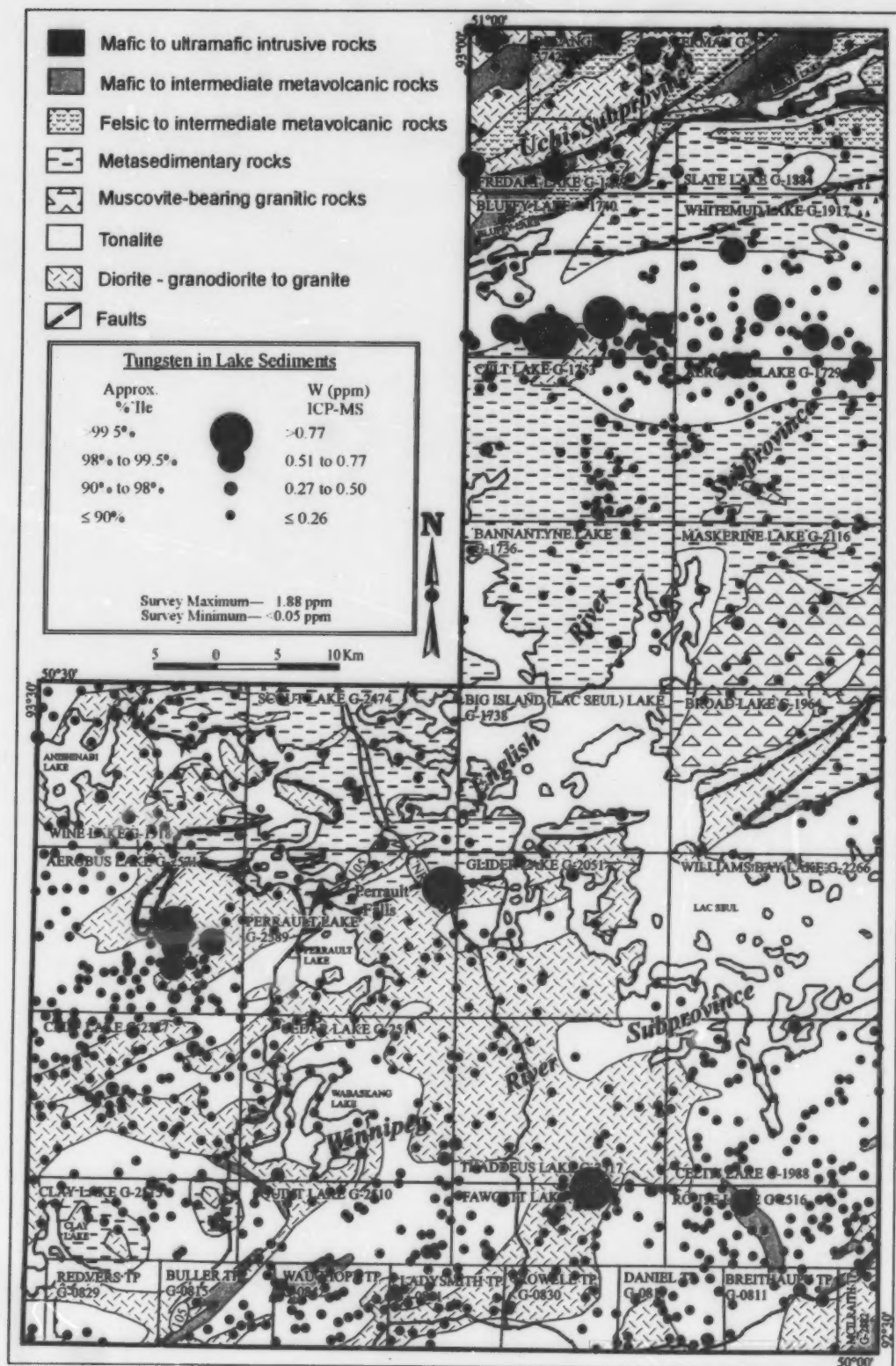
Survey Maximum— 1.3 ppm
Survey Minimum— 0.5 ppm

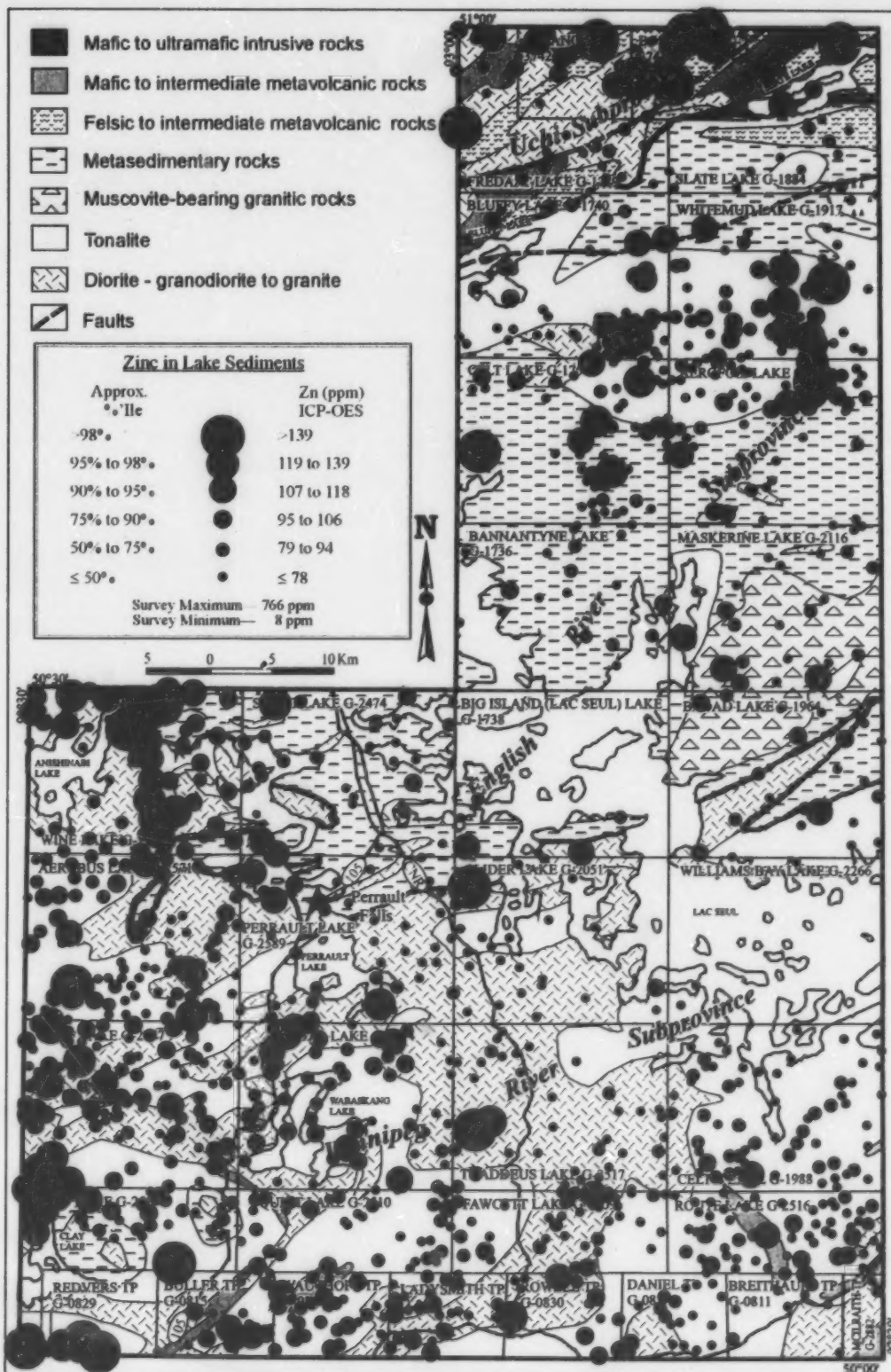
5 0 5 10 Km











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APPENDIX C

**Selected lake sediment analyses for As, Au (INAA), Au (FA),
Cu, Co, Cr, Fe, Ni, Pb, Pd, Pt, REEs, U, Zn and LOI
NAD 83 UTM ZONE 15**

Site #	Eastings NAD83 UTM Zone 15	Northing Method Units Detection limit	As INAA ppm 0.5	Au INAA ppb 2	Au FA ppb varies*	Cu ICP-OES ppm 5	Co ICP-MS ppm 0.05	Cr ICP-OES ppm 4	Fe ICP-OES ppm 5	Ni ICP-OES ppm 5	Pb ICP-MS ppm 0.05	Pd FA ppb varies*	Pt FA ppb varies*	REEs*	U ICP-MS ppm 0.05	Zn ICP-OES ppm 2	LOI Grav. %
74	531999	5539019	2.9	-2	ND	10	4.72	11	9774	10	2.82	ND	ND	98.78	3.12	40	14.9
75	523199	5540119	2.6	-2	-1.0	32	6.88	16	25946	17	3.99	1.3	0.5	95.26	1.70	87	65.11
76	521399	5541269	2.8	-2	ND	20	6.87	26	13320	23	4.18	ND	ND	132.62	2.50	51	36.96
77	521399	5539619	3.9	-2	ND	22	7.49	32	18723	24	5.61	ND	0.5	133.40	7.50	57	26.57
78	520199	5539219	2.4	-2	-1.0	19	8.56	33	18843	25	5.15	1.5	0.3	127.55	4.57	76	30.44
79	519099	5539619	1.9	-2	1.5	21	9.71	38	23016	27	5.51	ND	0.5	173.42	3.11	62	15.81
81	519799	5542119	4.4	-2	1.0	24	10.81	38	26610	28	6.18	ND	0.5	186.78	2.61	70	21.91
82	521399	5541219	2.3	-2	-1.0	20	7.77	28	14404	27	3.99	0.4	0.4	127.06	2.24	55	36.78
83	523399	5542619	2.3	-2	1.3	22	10.09	41	24106	29	6.01	ND	2.6	146.64	3.23	67	20.72
84	526899	5544119	3.6	-2	0.9	19	8.77	30	20662	20	4.96	ND	0.5	168.96	10.60	72	17.86
85	527699	5542819	2.4	-2	0.9	15	6.41	29	16026	18	4.05	ND	0.5	118.39	8.90	54	19.43
86	529099	5543819	2.9	-2	1.0	16	7.63	26	16235	18	4.72	0.9	0.5	169.53	13.49	70	17.39
87	530999	5543019	10	-2	ND	11	3.71	23	12520	8	4.57	1.1	ND	57.70	23.51	42	52.85
88	535199	5544119	1.5	-2	ND	15	8.28	24	16006	18	3.88	ND	ND	131.59	7.90	94	35.34
505	535382	5547732	3.6	-2	-1.0	23	8.91	30	17303	23	3.55	0.8	0.5	153.25	10.56	64	42.96
506	534663	5544960	3.1	-2	-1.0	12	3.82	12	6602	11	2.93	0.2	0.2	46.62	4.14	65	61.74
507	533927	5546077	6.1	-2	-2.0	30	6.52	31	13397	17	2.86	1.3	0.4	102.66	16.96	52	41.49
508	531551	5544579	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
509	529786	5544615	1.9	-2	3.4	29	14.3	44	26480	31	7.12	ND	ND	216.87	5.74	93	32
511	529199	5545601	4.7	-2	1.9	24	15.44	39	32722	27	6.87	ND	0.6	240.79	14.88	104	21.55
512	528878	5546809	4.5	-2	2.2	26	13.88	42	31681	27	5.04	ND	0.6	220.86	11.21	104	23.34
513	527617	5547092	2	-2	1.8	27	13.81	36	21486	30	4.44	ND	0.5	219.80	2.08	77	34.06
514	527501	5545602	4.6	-2	2.6	25	12.75	42	33632	26	5.86	ND	0.6	186.31	12.93	89	24.87
515	526046	5546046	5.3	-2	4.1	25	9.68	41	28703	24	5.23	0.9	0.8	147.50	9.79	75	26.64
516	525020	5546672	1.9	-2	1.6	13	5.37	25	13304	15	3.17	ND	0.6	113.83	4.62	37	9.87
518	523406	5545937	3.1	-2	-1.0	13	5.06	14	5963	11	4.69	0.2	0.4	68.81	1.06	71	54.38
519	523494	5546768	1.1	-2	2.4	7	1.8	14	3667	9	4.9	ND	ND	49.58	0.42	33	27.59
521	522201	5543660	2.4	-2	5.3	25	10.22	41	21451	29	5.06	ND	0.5	135.01	2.68	64	25.6
522	521527	5544719	2	-2	2.9	20	11.42	26	16302	20	3.05	ND	ND	195.03	2.35	61	42.81
523	520187	5544616	1.7	-2	2.1	21	12.51	30	21258	24	3.82	ND	ND	199.13	2.05	74	36.65
524	519228	5544438	2.9	-2	2.4	22	11.65	42	24666	28	4.58	0.9	0.7	183.32	2.80	68	16.97
525	518466	5543253	2.3	-2	2.8	31	12.82	37	24860	23	6.47	ND	ND	334.19	3.78	93	40.1
526	521011	5545657	1.9	-2	2.7	32	4.21	11	9056	14	2.8	ND	ND	153.81	2.02	71	62.37
527	521370	5546287	2.7	-2	-1.0	24	7	20	13826	17	5.71	0.3	0.5	144.32	2.30	95	58.03
528	520569	5546766	1.4	-2	2.5	37	2.17	9	4453	10	2.07	ND	0.6	94.78	1.20	57	59.92
529	522684	5547064	2.8	-2	3.5	20	8.88	22	24311	19	3.81	ND	ND	189.93	2.21	76	42.86
531	522500	5547728	3.4	-2	3.2	26	10.9	28	20914	19	3.56	0.9	ND	225.04	2.78	70	38.28
532	523716	5548417	3.1	-2	2.4	24	9.39	29	25287	21	4.7	ND	ND	199.59	2.23	84	40.87
533	524935	5548794	4.6	-2	3.2	26	13.15	40	38674	25	5.01	1.0	0.6	175.37	12.39	86	24.07
534	525966	5548799	INF	INF	2.2	38	18.53	45	25422	27	6.57	ND	ND	INF	2.55	111	41.61
535	528201	5549781	2.3	-2	3.0	45	17.79	44	25342	32	4.79	ND	2.6	318.77	3.47	96	36.23
536	528070	5548509	1.7	-2	1.0	30	2.68	15	8029	13	2.97	ND	ND	126.05	1.58	73	58.78
537	529410	5548734	3.8	-2	INF	25	8.36	40	22172	24	4.8	INF	INF	132.11	8.33	74	27.27
538	529815	5548111	2.3	-2	3.9	26	5.29	18	16337	13	4.81	0.9	0.7	128.43	1.32	66	53.71
539	531895	5547035	2.5	-2	3.0	22	15.45	46	28948	35	6.15	ND	0.5	186.31	5.16	99	26.72
541	532667	5547166	3.1	-2	2.7	27	13.64	43	26551	27	7.45	ND	0.5	208.91	6.58	97	31.97
542	533958	5547249	INF	INF	1.4	33	8.69	30	25823	24	5.29	ND	ND	INF	4.99	69	52.03
543	534850	5548267	2.8	-2	3.5	21	6.4	22	9503	19	3.22	ND	ND	108.12	10.32	45	49.34
572	534739	5551221	2.1	-2	1.5	19	9.6	32	18259	20	3.57	ND	0.5	151.35	9.45	79	25.26
573	533736	5550802	2.3	-2	2.2	32	13.63	39	21410	27	6.05	ND	ND	235.06	6.81	74	41.66
574	534390	5549682	3.1	-2	1.7	22	10.98	38	20186	29	5.48	ND	0.5	153.59	9.83	79	38.56
575	533543	5549958	2.2	-2	1.2	27	6.4	27	16966	19	4.87	ND	ND	137.95	5.03	65	42.34
576	533123	5548677	4.2	-2	-1.0	27	14	42	25909	26	8.66	0.3	0.2	214.98	7.38	97	38.86
577	532915	5549471	1.9	-2	1.2	23	11.13	34	18796	23	5.7	ND	0.6	186.57	3.23	76	36.34
578	532605	5550618	1.5	-2	3.7	18	6.82	29	14432	21	4.16	ND	ND	108.14	2.29	64	32.88
579	531612	5551174	1.8	-2	1.7	26	3.27	18	7392	14	3.78	ND	0.7	105.08	1.93	56	58.52
581	531312	5551552	1.7	-2	4.2	19	2.85	13	6979	12	2.47	ND	0.6	74.29	1.04	40	60.6
582	530619	5551366	2.4	-2	1.5	22	7.18	35	18940	22	6.03	ND	0.6	137.67	5.18	71	28.19
583	529805	5550897	0.8	-2	1.5	16	3.6	17	6252	14	3.46	ND	0.6	99.24	1.65	24	31.44
584	531261	5549850	1.4	-2	INF	20	1.89	12	3881	10	2.2	INF	INF	59.75	1.56	36	64.08
585	531346	5548854	2.1	-2	2.4	21	5.52	18	8488	19	4.26	ND	0.5	145.05	2.72	59	55.98
586	530881	5549140	1.9	-2	1.4	19	4.01	20	9030	17	4.17	ND	ND	115.32	1.71	59	49.35
587	530051	5549740	2.2	-2	1.7	17	7.2	29	15358	19	3.72	ND	0.6	130.70	4.83	51	14.26
588	530495	5553074	1.6	-2	-3.0	25	5.25	22	8139	19	3.6	-0.3	-0.3	128.64	1.63	51	47.18
589	530357	5554410	1.8	-2	1.8	29	10.8	49	27894	33	6.6	ND	0.6	184.84	3.01	92	23.89
591	531582	5554783	2.7	-2	-2.0	32	11.96	49	33285	32	7.58	0.4	0.4	208.03	2.77	94	27.82
592	531593	5553492	3	-2	ND	19	7.09	25	12430	22	4.55	ND	ND	71.07	6.75	63	38.59
593	531781	5552738	1.4	-2	-2.0	19	4.78	25	11444	18	4	-0.2	0.9	75.12	1.19	54	35.04
594	532527	5551976	2.8	-2	1.3	33	10.3	33	14749	23	5.32	ND	ND	196.17	2.50	88	51.36
595	534124	5552477	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
596	534325	5553460	2.4	-2	1.1	16	2.68	8	8498	12	1.93	ND	ND	31.07	7.98	24	19.27

Site #	Easting	North	As	Au	An	Cu	Co	Cr	Fe	Ni	Pb	Pd	Pt	REEs*	U	Zn	LOI
	NAD83	Method	INAA	INAA	FA	ICP-OES	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-MS	FA	FA		ICP-MS	ICP-OES	Grav.
	UTM	Units	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	%
	Zone 15	Detection limit	0.5	2	varies*	5	0.05	4	5	5	0.05	varies*	varies*		0.05	2	0.01
597	533229	5554193	2.1	-2	1.8	35	10.43	40	19399	29	3.99	ND	0.5	248.12	3.47	92	41.75
598	532597	5553842	2.7	-2	0.9	30	7.34	37	18838	29	5.72	ND	ND	174.61	2.31	66	41.9
599	534347	5556199	1.6	-2	1.9	18	4.49	33	13274	21	5.74	ND	0.6	103.59	2.13	42	33.27
729	535128	5581576	2.3	-2	2.5	25	6.08	50	20584	32	6.77	ND	ND	97.29	3.49	56	40.5
731	532928	5581311	2.6	-2	2.0	18	1.95	10	7638	12	3.26	ND	ND	38.57	1.31	11	81.94
732	528345	5579953	2.5	-2	1.3	26	4.09	28	10738	23	3.96	ND	ND	75.50	4.18	42	47.73
733	523083	5580363	2.2	-2	2.9	18	6.34	37	18668	24	5.08	ND	0.6	87.19	2.50	61	11.1
734	520423	5580758	2.3	-2	2.1	20	5.04	30	14574	24	4.41	ND	ND	74.08	1.56	101	49.51
735	519469	5585272	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
736	520476	5593230	2.6	-2	1.6	26	6.74	27	14651	25	4.62	ND	ND	89.87	1.43	104	51.81
737	522683	5593827	3	-2	4.5	22	12.33	52	29981	36	6.59	ND	0.7	130.27	2.95	93	14.36
738	527047	5592743	2	-2	-1.0	25	2.86	19	6473	19	3.11	0.3	0.3	58.43	2.16	69	66.38
739	527449	5588505	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
741	525286	5587307	3.4	-2	4.3	29	12.13	58	34212	41	8.01	0.9	0.7	145.52	3.89	94	12.8
742	526123	5585308	1.7	-2	5.2	17	6.09	31	16506	23	4.06	0.9	0.5	87.75	1.35	51	14.45
743	523416	5583451	3.3	-2	3.2	37	14.88	63	36358	46	8.76	1.0	0.7	142.85	1.34	86	4.79
744	528781	5582994	1.2	-2	9.1	13	3.08	13	8138	13	2.24	1.4	0.6	38.38	2.55	23	9.18
745	529160	5584440	3.7	-2	-2.0	32	7.15	42	22570	32	5.75	0.7	0.7	103.26	3.28	89	32.14
746	530297	5584119	4.3	-2	2.6	27	4.2	19	17259	21	2.5	1.0	0.5	51.80	6.95	107	53.89
747	530936	5584802	3.9	-2	2.3	16	4.08	18	10262	20	3.82	1.0	0.5	42.94	3.02	64	48.74
748	533119	5583251	2.3	-2	-2.0	23	2.96	21	6344	20	3.45	0.3	0.4	64.76	1.39	64	63.78
749	535239	5585402	1.7	-2	4.4	20	11.36	56	28707	36	5.85	ND	0.6	108.86	2.36	88	17.41
801	534016	5586699	4.5	-2	2.0	22	7.27	30	13150	24	2.86	1.0	0.5	87.13	3.84	68	38.53
802	531753	5587675	2.6	-2	-1.0	18	5.72	14	5529	22	3.84	0.1	0.4	36.08	1.26	72	59.74
803	528544	5590559	2.7	-2	4.2	22	12.94	58	34539	40	7.22	0.9	0.7	152.25	4.82	102	13.35
804	527646	5590189	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
805	530433	5592462	2	-2	1.7	14	9.54	41	25509	28	5.19	ND	0.5	135.10	4.56	73	9.74
806	532388	5590274	3.3	-2	2.5	16	7.67	37	19015	25	5.32	ND	0.6	78.32	6.35	99	32.2
807	533686	5592055	3.3	-2	2.9	15	5.59	28	12089	23	4.86	ND	ND	56.38	0.55	65	41.69
808	534023	5591501	2.9	-2	1.5	10	2.32	9	3287	12	4.96	ND	ND	28.00	0.48	23	80.6
809	535369	5590070	3	-2	INF	12	5.22	13	5498	18	3.62	INF	INF	39.43	1.14	70	50.9
2283	533922	5649287	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2284	532207	5648585	1.7	-2	2.3	22	4.9	31	13111	25	4.37	ND	0.6	255.97	0.88	192	38.31
2285	529668	5648782	1.8	-2	2.8	39	8.93	49	26841	38	5.94	ND	0.6	171.84	1.87	81	28.72
2286	524064	5649367	2.2	-2	ND	22	4.5	19	6453	22	3.01	ND	ND	52.10	0.65	52	60.83
2287	521705	5648636	2.2	-2	1.1	24	4.56	16	6921	18	3.6	ND	ND	84.53	1.38	163	55.26
2288	521159	5649715	3	-2	2.5	50	6.05	14	11665	17	8.02	ND	0.5	244.97	0.68	766	64.26
2289	520705	5649636	1.7	-2	2.4	17	12.57	44	28621	29	5.94	ND	0.8	147.12	2.49	82	11.4
2291	519414	5649249	1.4	-2	-2.0	64	3.48	16	11142	18	6.93	-0.2	-0.2	474.12	2.23	385	65.28
2292	517834	5648276	3.2	-2	2.6	30	4.63	23	10891	18	5.72	ND	ND	509.98	1.97	102	58.86
2293	517467	5648948	2.1	-2	1.9	23	1.84	9	5994	10	2.46	ND	ND	174.87	1.03	77	68.61
2294	516371	5648682	2.6	-2	1.9	31	5.7	22	9460	24	3.18	ND	0.5	212.34	1.23	78	40.62
2296	511980	5648745	5	-2	-2.0	49	10.66	28	16594	30	4.02	0.2	0.6	423.56	2.78	252	64.4
2297	507926	5649293	1.6	-2	-2.0	37	4.77	16	7487	28	4.42	0.9	0.6	96.61	0.91	85	67.47
2298	507227	5648684	1.8	-2	-2.0	39	5.54	19	8302	27	4.31	1.2	0.8	77.98	0.58	75	67.73
2299	506846	5648701	4.3	-2	5.4	37	9.82	43	20469	39	6.21	1.3	1.3	134.05	1.20	107	34.39
2301	505702	5648342	5.8	-2	3.2	33	10.09	38	21258	37	6.34	1.2	1.6	142.27	1.34	94	27.46
2302	503217	5648913	1.1	-2	6.3	24	12.81	49	29681	34	6.03	1.0	1.2	133.23	1.30	116	16.4
2303	502285	5649473	3.6	-2	2.8	22	10.7	41	26001	31	5.48	1.1	0.7	140.33	1.45	95	17.88
2304	501883	5648883	3.9	-2	3.7	22	11.25	36	25645	29	5.61	1.1	0.7	142.19	1.73	94	15.59
2305	500384	5649635	4.5	-2	4.6	28	10.9	46	29192	34	9.75	1.2	0.7	148.39	1.79	103	21.94
2306	500168	5646185	2.4	-2	3.5	27	8.31	35	19050	29	4.98	1.1	0.8	107.98	1.25	86	32.64
2307	502464	5646495	1.2	-2	1.9	19	5.09	25	12955	21	3.9	1.0	ND	73.07	1.09	87	42.26
2308	504557	5645903	2.4	-2	2.7	17	4.2	13	5177	19	3.02	ND	ND	57.46	1.27	93	59.18
2309	505049	5646429	3.1	-2	3.3	31	8.42	38	21899	32	5.08	1.0	0.6	154.80	1.88	96	26.11
2311	506552	5647296	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2312	508686	5646008	1.5	-2	2.9	30	9.32	41	22942	31	8.4	ND	ND	128.74	1.89	106	28.12
2313	513841	5646582	2.7	-2	-3.0	25	5.35	24	11006	20	4.41	-0.3	0.4	274.86	1.99	79	37.9
2314	515259	5647880	3.7	-2	3.2	15	3.53	14	6768	17	6.28	ND	ND	150.37	1.10	55	62.5
2315	517270	5646863	4.4	-2	2.5	34	11.25	36	15553	23	6.16	ND	ND	514.84	1.53	88	48.55
2316	517775	5647640	2.5	-2	1.7	22	4.63	18	7362	21	5.04	ND	ND	186.92	1.24	52	42.45
2317	518588	5647447	2.1	6	1.8	32	9.67	37	15425	27	4.95	ND	ND	460.53	1.61	101	44.08
2318	519121	5646726	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2319	527206	5646336	2.4	-2	1.9	31	9.15	44	27262	34	6.85	ND	0.6	170.71	2.85	80	21.68
2321	530013	5646022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2322	532266	5647121	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2323	534268	5647441	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2363	532613	5645159	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2364	529935	5644810	3.3	-2	2.3	23	12.8	47	36599	35	8.8	ND	ND	189.68	3.45	101	16.57
2365	527847	5644539	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2366	526193	5645538	3.9	-2	2.4	33	8.46	45	27479	36	6.81	ND	ND	157.01	2.87	85	22.23

Site #	Eastings NAD83 UTM Zone 15	Northings Method Units Detection limit-->	As INAA ppm 0.5	Au INAA ppb 2	Au FA ppb varies*	Cu ICP-OES ppm 5	Co ICP-MS ppm 0.05	Cr ICP-OES ppm 4	Fe ICP-OES ppm 5	Ni ICP-OES ppm 5	Pb ICP-MS ppm 0.05	Pd FA ppb varies*	Pt FA ppb varies*	REEs* ppm	U ICP-MS ppm 0.05	Zn ICP-OES ppm 2	LOI Grav. %
2367	524488	5644945	3.3	5	2.9	27	9.01	44	26328	36	6.09	0.9	0.5	123.30	2.95	93	24.24
2368	521402	5644244	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2369	518262	5645064	2.5	-2	2.3	27	13.95	49	24032	41	4.8	ND	ND	324.98	1.31	184	26.94
2371	516761	5645861	2.8	-2	2.4	40	4.54	21	12638	21	3.7	ND	ND	315.83	1.12	81	68.5
2372	515275	5645588	3.1	-2	3.3	34	15.86	43	37497	36	4.28	0.9	ND	349.69	1.73	212	40.75
2373	514607	5644614	2	5	3.2	28	5.68	19	12764	19	3.6	ND	ND	217.67	1.86	61	62.11
2374	513366	5645001	2.9	-2	3.3	30	10.97	43	26833	35	6.21	ND	ND	210.21	1.62	112	37.25
2375	507061	5643435	3.1	-2	-1.0	18	2.83	15	6361	19	3.68	0.2	0.3	52.90	1.17	63	69.58
2376	502578	5644245	2.7	-2	-2.0	12	4.44	19	9563	19	4.23	-0.2	0.2	42.66	0.57	73	39.17
2377	500519	5641348	3.2	-2	1.0	28	8.41	43	26005	36	6.3	0.4	0.6	93.68	1.52	177	40.1
2378	501195	5641010	2.3	-2	INF	12	3.24	16	7009	23	3.95	INF	INF	36.85	2.40	74	67.57
2379	509216	5640774	3.1	-2	INF	12	3.64	16	8097	18	4.79	INF	INF	42.74	1.10	69	60.37
2381	514238	5641301	6.1	-2	3.0	13	5.79	20	18732	19	3.25	ND	ND	57.55	1.15	88	34.01
2382	516109	5642343	3.4	-2	1.5	22	7.87	37	20072	31	6.14	ND	ND	117.44	3.49	87	35.79
2383	518389	5642124	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2384	519597	5643393	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2385	520106	5642299	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2386	524843	5643129	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2388	527327	5643451	1.8	-2	-3.0	7	3.7	5	2766	11	4.46	-0.3	-0.3	29.20	2.44	111	68.69
2389	528198	5642792	2.7	-2	ND	24	5.55	37	21359	31	5.09	ND	ND	119.20	2.57	67	17.35
2391	530335	5643880	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2392	534031	5644517	1.4	-2	1.0	15	5.69	28	16471	23	5.03	ND	ND	92.08	1.34	66	22.81
2436	532807	5641313	3.5	-2	2.7	25	10.05	36	19043	33	5.07	ND	ND	130.90	1.86	67	36.13
2437	531231	5640378	2.1	-2	1.7	17	8.81	33	17756	28	5.69	ND	ND	89.32	1.34	83	32.95
2438	530622	5642204	3.9	-2	-2.0	16	5.15	18	9150	17	5.9	-0.2	0.3	87.48	3.47	60	65.15
2439	529625	5641475	4.1	-2	1.5	17	3.95	15	5881	21	5.27	ND	ND	59.01	2.44	80	54.26
2441	515728	5639960	1.8	-2	1.8	16	5.38	21	8734	24	3.53	ND	ND	55.88	0.88	67	40.53
2442	512855	5639489	4.4	-2	1.9	18	5.26	23	12301	25	2.99	ND	ND	60.54	3.42	80	54.63
2443	511686	5639869	4.5	-2	2.4	18	8.13	32	20333	23	5.18	ND	ND	120.45	3.13	92	31.01
2444	510635	5639298	11	-2	1.8	14	9.86	25	18259	22	4.9	ND	ND	103.05	2.72	74	17.54
2445	507571	5639424	3.9	-2	-2.0	17	3.62	14	6988	18	3.78	-0.2	-0.2	51.26	1.68	58	65.32
2446	500506	5638309	2.6	-2	2.3	13	7.95	33	17789	22	9.99	ND	ND	88.45	1.08	70	16.06
2447	500773	5636747	5.4	-2	2.4	37	9.48	45	27845	34	8.56	ND	ND	146.43	3.29	76	18.7
2448	505553	5637174	4.1	-2	1.0	16	3.51	18	5620	14	6.75	ND	ND	47.78	0.65	92	69.78
2449	507529	5638078	4.7	-2	1.2	24	12.22	27	44833	26	7.15	1.4	0.5	105.00	11.39	93	45.73
2451	512250	5638239	4.8	-2	ND	14	6.12	20	10991	24	5.72	ND	0.6	67.85	1.91	74	45.74
2452	512536	5637243	3.1	-2	1.4	14	7.45	35	18303	22	5.43	ND	ND	101.20	2.22	67	20.06
2453	513908	5637341	2.3	-2	-2.0	14	3.8	13	5091	16	2.4	-0.2	0.2	38.64	1.05	68	66.47
2454	516508	5636747	2.1	-2	1.8	11	5.04	24	13667	16	4.7	ND	ND	99.83	1.49	39	7.45
2455	517833	5637853	2	-2	1.2	21	5.4	20	9443	24	3.51	ND	ND	57.30	1.10	44	35.12
2456	518276	5636423	2.6	-2	INF	11	2.96	12	6237	12	1.89	INF	INF	36.18	1.16	46	74.27
2457	523479	5636428	2.9	-2	1.8	12	6	28	15345	20	4.56	ND	ND	106.75	1.77	46	11.52
2458	524669	5637827	3	-2	2.0	19	3.66	12	4635	30	2.34	0.4	0.4	36.01	0.93	64	63.64
2459	527111	5638966	3.1	-2	4.2	10	5.44	26	14156	17	3.04	ND	ND	102.56	1.44	40	7.82
2461	528891	5637960	3.9	-2	1.8	13	8.3	32	22560	23	3.65	ND	ND	142.67	2.26	54	8.45
2462	531933	5639280	2.2	-2	2.4	13	5.67	27	15698	19	2.78	ND	ND	116.28	2.40	46	13.53
2463	532257	5636624	8.5	-2	2.1	19	12.22	37	22428	30	4.38	1.0	ND	120.87	4.32	94	27.56
2464	534923	5638175	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2524	535115	5635919	5	-2	-2.0	19	8.09	16	18080	15	2.59	-0.2	0.2	111.20	1.87	68	68.48
2525	533008	5635427	2.8	-2	2.3	17	6.27	26	11879	26	3.76	ND	0.6	61.93	1.04	76	44.63
2526	523162	5633696	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2527	520664	5635087	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2528	517065	5634268	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2529	514177	5634417	9.2	-2	2.6	30	11.54	48	28818	39	7.41	1.1	0.9	152.04	2.88	82	19.87
2531	513893	5635308	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2532	512601	5633756	2.2	-2	2.2	17	5.94	27	10167	27	9.26	ND	ND	82.64	1.83	90	56.65
2533	509709	5634889	2.2	-2	2.8	19	8.83	40	21068	30	6.42	ND	0.6	113.59	2.16	82	20.51
2534	507819	5634831	2.6	-2	-2.0	7	2.43	11	5114	13	3.52	-0.2	-0.2	30.61	0.65	89	65.12
2535	503739	5634397	5.7	-2	2.0	14	6.06	19	10464	19	3.8	ND	ND	67.06	2.68	61	35.6
2536	503120	5633693	4.5	-2	2.5	23	11.1	47	27794	36	6.69	1.0	0.6	130.77	4.00	95	24.34
2537	500970	5631964	3.9	-2	3.7	23	8.64	40	24029	31	5.74	1.1	0.6	110.79	2.94	82	39.31
2538	500482	5629204	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2539	502738	5631324	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2541	505820	5632139	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2542	507882	5632976	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2543	508239	5630771	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2544	509569	5630445	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2545	511134	5631219	4.4	-2	2.6	28	11.35	43	24006	34	6.6	ND	0.8	142.36	2.96	67	15.98
2546	515219	5631762	2	-2	1.8	21	20.59	51	39922	39	7.04	ND	0.6	165.67	1.94	108	14.85
2547	517522	5632089	2.7	-2	2.1	20	17.98	49	34012	35	7.36	ND	0.6	146.10	1.64	107	17.61
2548	520807	5633001	3.7	-2	2.1	21	17.87	55	37894	40	6.95	ND	0.6	150.87	1.82	111	14.08

Site #	Easting	Northing	As	Au	Au	Cu	Co	Cr	Fe	Ni	Pb	Pd	Pt	REEs*	U	Zn	LOI
	NAD83	Method	INAA	INAA	FA	ICP-OES	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-MS	FA	FA		ICP-MS	ICP-OES	Grav.
	UTM	Units	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	%
	Zone 15	Detection limit	0.5	2	varies*	5	0.05	4	5	5	0.05	varies*	varies*		0.05	2	0.01
2549	522484	5631217	3	-2	INF	19	8.94	23	7073	24	3.16	INF	INF	97.88	2.94	71	60.79
2551	524123	5631857	3.5	-2	1.8	26	9.66	36	16735	34	8.26	ND	0.6	92.55	2.50	84	42.79
2552	524423	5632673	3.2	-2	2.3	18	6.17	21	9664	26	5.24	ND	ND	68.38	3.15	78	46.93
2553	527521	5630906	1.4	-2	2.5	13	14.38	40	22907	26	5.11	ND	0.6	112.40	1.52	78	15.27
2554	531023	5633125	4.2	-2	-2.0	28	10.76	23	7992	28	3.54	-0.2	0.3	111.45	7.05	55	58.76
2555	531855	5631673	2.3	-2	1.7	17	4.44	16	6313	21	4.39	ND	ND	82.31	2.36	44	51.7
2611	532957	5629912	3	-2	1.1	15	5.25	21	9833	21	6.93	ND	ND	58.03	0.96	64	53.18
2612	530624	5630537	3.2	-2	INF	24	6.11	34	17246	27	5.81	INF	INF	111.60	3.03	65	50.44
2613	528023	5629714	4.1	-2	2.0	39	12.2	52	28764	38	8.15	ND	ND	233.04	2.35	86	33.86
2614	527395	5629510	1.7	-2	1.5	23	15.55	38	22695	30	5.48	ND	ND	136.28	1.60	121	33.01
2615	526984	5630023	2	-2	2.0	17	20.96	41	27237	31	5.45	ND	0.6	137.65	1.66	101	27.64
2616	525351	5629615	2.5	-2	1.8	16	14.1	38	23986	31	4.61	ND	ND	132.71	1.83	99	22.25
2617	519107	5629925	4	-2	2.3	32	9.83	45	26287	36	9.39	ND	ND	170.58	2.51	85	28.9
2618	518549	5629893	3.8	-2	2.7	30	10.76	45	25884	34	7.51	ND	0.6	172.32	2.45	83	26.47
2619	515940	5629556	3	-2	2.3	27	12.98	49	29098	38	8.69	ND	ND	149.93	1.69	99	26.47
2621	515710	5628831	2.3	-2	2.2	25	13	49	28693	38	8.71	ND	ND	143.71	1.53	108	26.47
2622	515049	5629038	2.4	-2	1.8	28	12.18	49	28151	37	7.09	ND	ND	150.96	2.30	99	27.62
2623	504209	5629746	3.3	-2	2.2	21	13.52	56	37757	41	7.71	ND	ND	161.53	2.53	106	14.03
2624	502832	5629150	2.2	-2	2.2	17	11.25	44	27040	31	5.53	ND	0.6	141.72	1.93	76	9.78
2625	501724	5627988	4.3	-2	3.5	31	11.31	52	32192	38	6.4	1.2	0.9	172.56	4.75	87	18.97
2627	504623	5627116	5.4	-2	2.4	26	10.56	49	31637	34	10.22	ND	0.6	186.91	3.73	95	19.9
2628	507231	5626161	1.1	-2	1.3	18	10.7	42	23710	29	5.95	ND	0.5	114.44	1.18	77	15.77
2629	507698	5625599	2.7	-2	1.3	14	6.57	17	9093	15	3.42	ND	ND	76.29	1.18	51	40.62
2631	511861	5625468	4.7	-2	2.5	22	11.23	32	19296	27	6.93	1.1	0.7	139.96	1.37	70	18.97
2632	514175	5625897	10	-2	2.8	25	19.77	26	39622	23	25.96	ND	ND	171.64	1.07	77	48.2
2633	514974	5625472	2.9	-2	1.2	18	6.94	20	10898	21	4.03	ND	ND	116.44	0.96	51	41.25
2634	516421	5625577	2.8	-2	2.2	24	12.94	32	21394	25	4.34	ND	ND	184.44	1.19	100	42.8
2635	519329	5628074	4.6	-2	2.0	29	12	36	19766	31	5.64	ND	0.6	145.90	1.91	75	32.13
2636	522609	5627709	4.1	-2	1.8	29	9.41	36	29142	28	8.42	ND	ND	150.77	1.16	91	46.76
2637	527156	5627882	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2638	529551	5627894	3.6	-2	-1.0	26	9.48	34	21972	24	10.73	0.2	0.3	142.02	1.13	99	48.11
2639	531170	5628481	3.6	-2	2.4	27	33.45	43	26576	38	12.37	ND	0.5	216.97	2.94	177	32.84
2641	532421	5628896	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2642	534407	5627984	4.1	-2	1.9	12	3.4	15	7045	17	6.96	ND	ND	47.09	0.59	39	55.17
2688	532358	5624296	2	-2	1.9	12	5.81	19	8256	15	3.85	ND	0.5	62.43	0.84	49	39.64
2689	530063	5625727	2.1	-2	18.0	17	10.14	31	19988	22	5.89	0.9	0.7	94.76	0.76	101	38.1
2691	528699	5625627	4.9	-2	2.0	29	9.87	38	20799	29	7.15	0.5	0.5	135.60	1.82	75	36.09
2692	527374	5626799	3.7	-2	2.9	26	26.54	41	31545	33	5.7	ND	ND	174.48	1.66	139	36.53
2693	525455	5626371	2.9	-2	1.7	21	14.98	37	22213	35	4.79	ND	0.8	154.14	1.44	105	31.52
2694	523198	5625208	2	-2	2.3	23	19.47	39	23506	34	5.18	ND	0.8	163.27	1.28	97	38.16
2695	522541	5626473	2.6	-2	3.0	31	14.46	41	21232	32	5.88	1.0	0.6	197.35	2.08	85	39.39
2696	520748	5625574	3.7	-2	2.0	21	7.8	15	11510	18	4.75	ND	0.6	99.02	0.78	97	63.02
2697	519742	5625192	3.8	-2	1.6	21	12.09	34	23433	29	4.82	ND	ND	171.26	1.24	85	31.32
2698	519416	5626297	5.7	-2	2.1	23	9.01	28	15129	28	6.6	ND	ND	151.46	1.42	68	45.38
2699	518462	5625592	4.1	-2	QC	29	11.11	32	22963	27	4.75	QC	QC	190.96	1.46	83	35.79
2701	517496	5625577	1.7	-2	QC	15	3.09	11	9171	11	1.91	QC	QC	92.92	0.74	40	53.88
2702	516479	5624933	3.4	-2	QC	35	26.08	33	36187	26	7.08	QC	QC	285.52	1.77	69	50.87
2703	515226	5623860	3.9	-2	QC	26	35.74	35	36209	33	3.73	QC	QC	235.38	1.80	128	30.39
2704	514735	5623972	4.7	-2	QC	39	20.99	39	26354	37	5.36	QC	QC	263.05	2.04	140	39.59
2705	512532	5624804	2.8	-2	QC	22	15.33	31	23410	23	5.67	QC	QC	181.49	1.29	113	37.32
2706	510072	5623790	2.4	-2	QC	18	6.16	15	9878	15	3.57	QC	QC	97.59	0.79	45	51.1
2707	509751	5624194	2.3	-2	QC	21	10.04	23	15847	23	3.55	QC	QC	125.66	1.22	60	53.25
2708	507833	5623977	1.5	-2	QC	14	4.73	17	8432	15	2.76	QC	QC	72.42	0.82	37	29.73
2709	506786	5624013	2.4	-2	QC	26	5.72	22	15722	16	3.85	QC	QC	93.27	1.00	65	48.26
2711	506044	5624046	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2712	504763	5624524	2.9	-2	QC	36	13.42	35	19468	27	8.44	QC	QC	185.25	2.62	75	44.57
2713	503448	5624588	2	-2	QC	26	7.27	23	12257	19	5.38	QC	QC	146.61	1.60	47	46.13
2714	500893	5623243	3.8	-2	QC	26	10.5	37	22520	27	6.46	QC	QC	137.02	2.06	75	26.8
2715	500330	5623790	2.8	-2	QC	35	8.15	31	17796	30	5.17	QC	QC	151.37	2.62	66	48
2716	504343	5623600	2.3	-2	QC	13	8.45	22	12060	18	4.79	QC	QC	79.00	1.50	51	35.56
2717	504890	5623435	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2718	510664	5623066	3.2	-2	QC	N.M.	N.M.	N.M.	N.M.	N.M.	N.M.	QC	QC	N.M.	N.M.	N.M.	N.M.
2719	511688	5623004	2.4	-2	QC	24	6.61	24	12295	21	4.39	QC	QC	123.62	1.43	47	51.2
2721	512936	5623484	3.1	-2	QC	22	13.3	29	21131	22	4.18	QC	QC	161.04	1.55	103	40.96
2722	514155	5623576	2.6	-2	QC	24	8.63	23	13306	19	3.92	QC	QC	134.23	1.43	49	58.85
2723	517467	5623561	3.5	-2	QC	35	15.58	24	25693	21	5.85	QC	QC	181.96	1.98	74	59.74
2724	521273	5624132	1.6	-2	QC	23	7.28	27	13592	21	3.83	QC	QC	139.45	1.06	65	39.49
2725	522963	5623706	2.5	-2	QC	24	24.15	38	25437	31	5.42	QC	QC	167.09	1.23	95	36.36
2726	523217	5624452	2.3	-2	QC	18	24.36	35	23062	33	4.05	QC	QC	161.64	1.13	105	21.31
2727	524675	5624555	3.3	-2	QC	23	23.47	30	15149	31	6.84	QC	QC	216.11	3.08	85	45.54
2728	526505	5624419	3.4	-2	QC	37	13.3	42	24296	28	5.65	QC	QC	214.89	2.18	97	42.25

Site #	Eastings NAD83 UTM Zone 15	Northings Method Units Detection limit	As INAA ppm 0.5	Au INAA ppb 2	Au FA ppb varies*	Cu ICP-OES ppm 5	Co ICP-MS ppm 0.05	Cr ICP-OES ppm 4	Fe ICP-OES ppm 5	Ni ICP-OES ppm 5	Pb ICP-MS ppm 0.05	Pd FA ppb varies*	Pt FA ppb varies*	REEs* ppm	U ICP-MS ppm 0.05	Zn ICP-OES ppm 2	LOI Grav. % 0.01
2729	527557	5624428	3.8	-2	QC	27	33.17	39	36763	31	6.35	QC	QC	177.90	1.61	129	39.78
2731	528053	5624082	2.2	4	QC	21	21.2	36	25727	28	7.93	QC	QC	154.19	1.55	117	36.72
2732	529550	5623941	3	-2	QC	23	21.51	36	31806	29	8	QC	QC	157.48	1.39	119	40.23
2733	531550	5623411	1.6	-2	QC	13	7.07	23	12230	17	4.19	QC	QC	92.59	1.12	43	31.56
2778	533920	5622762	1.7	-2	1.4	28	10.94	34	18452	28	5.42	ND	ND	182.06	1.29	67	32.81
2779	533256	5622978	2.5	-2	1.3	35	31.26	32	36740	31	7.66	ND	ND	241.27	1.45	64	47.25
2781	529962	5623316	2.4	-2	1.4	21	13.7	33	28248	27	7.26	ND	ND	144.38	1.51	110	39.26
2782	527685	5622754	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2783	527166	5622706	2.1	-2	1.0	20	7.55	27	16577	20	6.74	ND	ND	114.68	0.95	63	35.94
2784	524465	5622374	2	-2	1.2	25	3.43	15	6619	19	3.85	ND	ND	110.12	1.11	37	53.09
2785	523846	5622182	2.8	-2	1.3	28	6.08	18	8686	26	4.64	ND	ND	131.72	1.01	57	62.82
2786	521895	5622242	3	-2	2.5	19	8.25	29	14999	26	4.48	ND	ND	130.12	1.16	103	26.59
2787	520929	5622121	1.3	-2	1.5	16	4.66	26	12158	18	4.45	ND	ND	88.91	0.95	46	36.2
2788	519397	5623170	2	-2	1.6	17	2.69	15	10399	14	3.85	ND	ND	81.87	0.79	48	53.41
2789	516822	5622286	3.1	-2	-3.0	25	6.62	16	8389	18	4.06	-0.3	-0.3	96.16	0.75	64	66.25
2791	516644	5622623	2.4	-2	2.2	26	5.65	19	9258	15	7.23	ND	ND	127.38	1.41	73	54.91
2792	515844	5623172	3.1	-2	1.7	22	10.65	28	18034	26	6.72	ND	ND	132.97	1.03	79	40.99
2793	515196	5622916	2.7	-2	1.9	25	24.7	33	22543	28	13.55	ND	ND	217.41	2.14	89	37.43
2794	513864	5623133	3	-2	1.8	11	3.57	12	9899	11	3.66	ND	ND	59.77	1.12	39	39.41
2795	513232	5622420	3.5	-2	2.4	29	8.73	30	17301	26	5.06	ND	ND	142.58	1.13	106	45.29
2796	512573	5622401	3.5	-2	1.7	18	7.49	20	12116	20	4.85	ND	ND	88.02	0.55	69	53.06
2797	513118	5621774	2.4	-2	1.5	20	6.78	21	10239	16	4.3	ND	ND	109.13	1.36	71	38.3
2798	515801	5621712	4.6	-2	2.4	50	12.51	43	27234	34	6.77	ND	ND	245.41	2.42	87	42.12
2799	517317	5621092	2.5	-2	2.0	25	6.67	28	20800	20	7.27	ND	ND	135.10	1.22	67	44.46
2801	518920	5621471	4.5	-2	2.0	24	6.69	23	15767	20	8.41	0.2	0.2	137.02	1.21	83	54.58
2802	519632	5621241	3.7	-2	ND	18	7.12	19	12644	21	6.46	ND	ND	110.15	1.01	63	48.87
2803	520147	5621747	2.6	-2	3.0	15	3.67	15	8396	15	4.12	ND	ND	62.63	0.87	43	42.36
2804	521634	5621646	2.2	-2	1.1	19	5.2	29	13169	23	4.84	ND	ND	99.68	0.99	70	41.57
2805	522218	5621780	1.2	-2	1.2	13	9.63	23	16444	19	3.22	ND	ND	118.28	1.11	78	13.15
2806	522998	5621480	1.4	-2	1.3	11	5.32	17	7789	14	4.56	ND	1.2	90.22	1.33	40	17.84
2807	523276	5620910	2.2	-2	2.3	24	5.59	26	11223	20	5.97	ND	1.6	95.78	1.06	49	39.53
2808	523897	5621159	1.6	-2	1.9	23	4.63	19	7919	23	4.87	ND	ND	99.45	0.97	44	34.99
2809	524486	5620947	1.8	-2	0.9	25	3.47	15	5767	19	3.85	ND	ND	77.01	0.92	33	33.28
2812	529759	5621874	3.8	4	2.6	20	39.09	38	29105	33	14.99	ND	0.7	170.94	2.31	129	32.66
2813	530713	5621119	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2814	532278	5620674	2.8	-2	1.9	15	20.45	30	17433	26	8.64	ND	ND	150.67	2.24	83	15.7
2815	533433	5621283	4.5	-2	2.3	30	10.59	35	21558	28	9.81	ND	ND	212.04	2.08	78	37.22
2816	533917	5620657	4.3	-2	1.9	25	7.34	23	14570	21	4.99	ND	0.5	131.20	1.85	44	20.18
2871	534250	5618812	-0.5	-2	ND	13	16.8	35	22591	26	4.41	1.4	1.4	113.58	1.28	88	15.69
2872	533490	5620022	2.5	-2	1.4	32	10.5	32	22025	27	4.34	1.4	ND	180.26	2.49	70	37.2
2873	531838	5619000	2.8	-2	1.3	27	7.74	20	7992	23	3.67	1.2	ND	67.81	1.27	104	67.7
2874	530040	5620093	2.7	-2	1.1	21	24.35	41	33071	36	4.44	1.2	2.7	145.15	2.03	147	28.77
2875	529713	5619305	2.1	-2	1.1	22	19.58	39	34948	29	7.57	1.3	0.6	145.99	1.72	119	42.03
2876	527519	5619832	4.7	-2	1.2	20	5.29	19	10433	17	11.47	ND	ND	97.40	1.22	75	57.46
2877	525068	5618853	1.8	-2	2.5	25	6.64	25	13294	20	4.35	ND	ND	154.73	1.33	62	44.77
2878	524305	5619706	2.8	-2	1.3	28	10.04	29	13891	28	4.22	ND	ND	155.60	1.60	66	39.48
2879	523162	5619086	2.6	-2	1.2	33	12.3	29	17469	25	7.06	1.5	ND	172.56	1.57	67	44.91
2881	521617	5620634	1.8	-2	1.4	26	3.89	22	9587	16	4.44	1.0	0.5	89.32	1.48	73	45.6
2882	518777	5620282	3.3	-2	1.4	23	6.98	20	9997	22	5.44	ND	ND	139.15	1.72	62	54.35
2883	518039	5620263	1.9	-2	-2.0	16	2.42	10	4906	11	2.66	-0.2	-0.2	57.43	0.98	34	60.55
2884	517299	5619937	2.5	-2	1.3	30	7.69	24	10954	20	4.32	ND	ND	163.48	1.89	58	45.79
2885	516743	5620299	2	-2	-2.0	17	6	17	9204	20	3.34	-0.2	-0.2	92.76	1.15	56	40.97
2886	515402	5620141	4.3	-2	1.5	29	17.86	35	29263	38	4.68	1.2	0.8	207.62	1.74	138	38.98
2887	514723	5620561	2.6	-2	1.2	22	5.17	11	4741	13	2.42	4.0	ND	61.99	1.15	60	58.67
2888	513349	5619524	4	-2	ND	26	4.56	13	7859	13	4.02	ND	ND	108.37	2.48	39	46.4
2889	513973	5618303	3.2	-2	1.1	26	10.04	22	18725	19	4.04	3.2	ND	132.99	1.44	64	45.28
2891	513512	5617818	1.9	-2	INF	26	7.1	22	12417	20	3.83	INF	INF	174.50	1.59	58	40.75
2892	513024	5616324	1.8	-2	1.3	29	14.54	30	16802	22	5.3	1.8	ND	159.15	1.65	83	50.59
2893	514924	5616266	1.9	-2	1.1	32	2.42	9	7101	11	2.56	ND	ND	80.15	1.29	57	65.5
2894	516016	5615977	4.4	-2	1.0	30	12.6	31	22298	28	6.05	1.9	ND	253.04	2.57	103	35.01
2895	516915	5616472	3.7	-2	1.5	30	12.88	31	24372	28	4.79	ND	ND	253.92	2.49	104	35.62
2896	517743	5616161	-0.5	-2	1.5	34	14.22	32	20172	31	4.23	1.5	ND	121.20	2.86	106	40.99
2897	517718	5616999	2.1	-2	1.8	36	4.09	18	15194	15	4.38	ND	ND	145.15	1.75	52	54.66
2898	519196	5618799	2.2	-2	-1.0	16	3.82	15	6184	16	2.41	0.1	0.2	69.54	1.13	52	47.65
2899	520374	5619178	3.5	-2	1.3	13	4.32	14	8608	17	5.07	ND	ND	56.00	0.83	71	53.23
2901	522394	5618408	2.6	-2	2.0	37	17.56	33	22676	28	4.45	2.7	ND	222.30	2.65	95	38.88
2902	523934	5618231	3	-2	1.5	21	5.26	22	10948	15	5	ND	ND	105.97	1.27	70	54.17
2903	523974	5617936	2.1	-2	-1.0	26	2.99	11	12942	12	3.19	0.3	0.2	63.47	0.80	68	72.98
2904	524084	5616500	2.8	-2	2.2	18	8.36	19	9065	18	5.85	ND	ND	92.61	2.13	45	51.51
2905	526336	5617841	2.9	-2	1.5	22	18.95	37	25810	32	5.54	ND	ND	152.95	1.81	104	32.99
2906	527688	5618388	2.7	-2	1.5	20	16.94	37	24517	33	4.26	ND	ND	136.26	2.04	108	32.22

Site #	Eastings	Northings	As	Au	Au	Cu	Co	Cr	Fe	Ni	Pb	Pd	Pt	REEs*	U	Zn	LOI
	NAD83	Method	INAA	INAA	FA	ICP-OES	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-MS	FA	FA		ICP-MS	ICP-OES	Grav.
	UTM	Units	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	%
	Zone 15	Detection limit	0.5	2	varies*	5	0.05	4	5	5	0.05	varies*	varies*		0.05	2	0.01
2907	529431		5618132	2.2	-2	1.1	16	15.46	34	21891	27	3.74	ND	ND	106.25	1.91	95 35.6
2908	532530		5617717	1.2	-2	-3.0	13	5.74	14	5491	17	2.42	-0.3	-0.3	52.95	1.22	47 42.04
2909	532764		5618334	2.4	-2	2.4	18	13.33	31	25939	23	5.66	1.6	ND	108.78	2.31	86 46.88
2947	533544		5614879	4.1	4	-1.0	14	6.77	16	8852	23	7.71	0.2	0.2	43.45	0.95	94 66.37
2948	528930		5615439	2.9	-2	-1.0	15	6.36	21	11167	19	4.88	212.0	0.5	56.57	1.58	68 49.37
2949	526710		5613472	1.5	-2	ND	14	6.72	28	13904	20	3.91	9.5	ND	103.64	1.74	46 15.22
2951	523767		5613821	2.1	-2	2.0	19	10.84	43	24253	30	5.24	0.7	1.2	131.50	2.22	73 15.25
2952	520464		5616182	2.4	4	1.0	24	15.38	41	25070	30	5.31	-0.3	1.0	169.88	1.64	93 25.65
2953	518765		5616136	3.1	-2	-3.0	35	12.23	23	17290	26	4.93	-0.3	-0.3	188.72	2.34	83 54.96
2954	519278		5615411	1.9	-2	2.0	28	8.7	27	11970	29	4.72	0.4	1.7	125.73	1.83	66 50.37
2955	519818		5614665	5.3	-2	2.0	34	17.45	25	20710	33	4.9	1.1	2.2	103.50	2.66	57 31.08
2956	517637		5614871	2.1	-2	2.0	28	3.48	13	7625	16	2.93	-0.3	1.8	63.61	1.10	56 69.96
2957	517906		5613721	1.9	-2	1.0	26	6.93	21	5767	34	4.97	0.5	0.3	65.49	1.94	88 67.78
2958	518774		5613969	3.6	-2	-1.0	23	14.87	44	31311	36	5.2	0.7	1.4	135.14	2.01	107 35.57
2959	514386		5612757	2.4	-2	-1.0	26	6.58	26	11164	27	4.98	-0.3	1.2	114.87	13.37	57 50.84
2961	513116		5613405	2.2	-2	-1.0	29	10.63	42	14685	37	4.7	-0.3	1.2	116.50	2.13	86 40.43
2962	512256		5613864	1.8	-2	1.0	49	12.44	40	31848	41	5.79	0.5	1.9	99.51	1.83	57 61.37
2963	511507		5612303	2.6	-2	2.0	34	16.22	48	18728	45	4.73	1.1	3.1	138.49	2.75	99 41.89
2964	513002		5612546	3.4	-2	-2.0	39	20.34	56	24008	50	5.06	-0.6	0.7	155.25	3.07	121 42.81
2965	511926		5611472	1.4	-2	1.0	36	18.97	49	16524	33	6.9	0.3	1.5	132.60	2.76	82 45.42
2966	512494		5611216	INF	INF	-1.0	22	4.16	24	4870	20	2.77	-0.1	0.8	INF	4.24	42 38.45
2967	512265		5610142	1.6	-2	3.0	41	49.46	57	35062	43	6.03	0.5	0.4	150.04	5.03	93 55.75
2968	512370		5609130	2.2	-2	1.0	41	7.24	38	8843	34	4.27	0.3	1.3	74.71	1.82	74 55.52
2969	513372		5608958	1.5	-2	2.0	37	6.32	36	10017	31	4.96	0.3	0.4	75.77	2.22	58 52.2
2971	513956		5609227	1.7	-2	3.0	20	10.05	30	7442	42	5.32	-0.2	0.2	83.52	2.17	58 35.36
2972	515095		5610042	1	-2	2.0	16	17.94	48	28460	34	6.75	1.0	2.1	108.00	2.75	92 26.12
2973	513811		5607256	1.8	-2	-3.0	23	10.77	27	11610	26	4.58	-0.3	-0.3	75.65	1.26	54 50.38
2974	514729		5608078	2.8	-2	INF	24	12.06	36	13502	35	6.53	INF	INF	88.50	1.09	64 43.6
2975	516273		5609417	3.2	-2	1.5	19	9.13	23	8090	31	6.36	3.2	ND	64.13	10.34	72 62.25
2976	520638		5611569	2.7	-2	1.9	26	13.82	44	20292	35	5.85	3.5	0.6	139.40	2.17	61 29.2
2977	521996		5611748	3.1	-2	2.4	22	11.45	43	20330	33	5.33	2.2	0.6	125.97	1.96	72 28.32
2978	523123		5612230	1.7	-2	4.4	18	7.95	30	17207	22	3.67	3.2	0.8	106.74	1.16	41 6.68
2979	521540		5609215	1.7	-2	1.4	24	17.06	52	27748	37	6.05	1.7	0.7	173.00	6.24	103 25.13
2981	522584		5608466	2.7	-2	ND	18	6.61	18	7091	20	3.44	1.5	ND	82.47	3.35	55 3.85
2982	522627		5609055	2.3	-2	0.9	23	16.99	46	28372	35	8.32	2.0	1.2	172.24	4.07	100 52.99
2983	524695		5611020	2.9	-2	1.6	28	21.31	53	34730	35	11	1.4	0.6	211.13	7.33	87 31.95
2984	525880		5611260	1.6	-2	1.0	20	7.25	20	8574	22	3.11	1.6	ND	72.23	1.84	53 49.81
2985	526357		5611796	2.4	-2	1.1	8	4.82	9	4803	15	3.12	1.3	ND	29.25	1.19	48 50.26
3012	533863		5607972	INF	INF	-1.0	18	2.47	16	3722	16	2.88	0.1	0.1	INF	0.97	28 33.56
3013	533364		5608615	1.7	-2	1.3	40	9.49	43	8267	40	4.36	1.0	ND	88.05	1.83	73 58.89
3014	533134		5607692	1.5	-2	ND	25	3.94	23	7428	29	3.71	ND	ND	61.61	1.33	43 49.91
3015	531429		5608103	2.5	-2	-2.0	17	5.07	16	7848	21	5.57	-0.2	-0.2	55.71	1.17	46 49.09
3016	525627		5608511	1.8	-2	-5.0	15	6.82	10	4514	17	4.62	-0.5	-0.5	44.90	10.87	44 41.04
3018	519223		5604628	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3021	513374		5603032	1.8	-2	-2.0	29	9.53	34	17574	27	4.59	0.4	0.4	114.19	3.93	77 45.54
3022	515232		5602487	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3023	517361		5601553	2.5	-2	3.0	23	15.14	61	34706	44	8.16	ND	0.6	141.89	1.76	105 13.74
3024	516468		5598851	3.3	-2	2.7	27	14.19	58	33177	43	8.91	2.0	0.9	165.15	2.99	91 10.86
3025	519021		5598654	2.9	-2	2.0	28	16.29	67	37822	49	10.39	1.2	0.7	156.76	2.18	110 13.17
3026	519346		5596020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3027	522287		5596038	2.1	-2	1.8	22	12.88	53	30947	37	8.35	1.0	0.6	124.21	3.16	108 19.55
3028	523727		5594911	2.1	-2	1.6	31	10.34	50	25899	40	7.92	1.2	ND	128.77	4.80	100 33.5
3029	523992		5596699	2	-2	1.0	21	9.89	41	22807	32	5.73	1.3	ND	106.82	5.93	84 39.08
3031	523304		5599741	2	-2	1.5	21	9.49	48	23816	30	5.89	ND	0.6	95.55	1.87	84 15.55
3032	522531		5600964	1.8	-2	1.3	43	15.4	35	20314	33	5.41	1.4	ND	118.26	2.05	98 60.03
3033	520007		5602486	3	-2	2.2	22	8.66	33	18628	26	9.49	1.5	ND	119.29	2.27	53 28.41
3034	523430		5603010	0.9	-2	1.5	16	9.26	29	13677	22	4.42	ND	0.5	102.13	1.88	57 28.97
3035	526055		5605331	1.6	3	-2.0	22	4.6	10	3733	15	2.58	-0.2	0.2	59.57	1.23	46 46.3
3036	527064		5604665	2.7	-2	1.7	23	8.28	19	5961	26	6.2	1.0	ND	95.65	2.19	71 61.36
3037	530322		5605647	2.1	-2	1.7	15	7.39	15	6554	20	3.62	ND	ND	80.78	3.12	63 47.49
3038	532677		5605813	3.4	-2	1.5	12	4.99	8	4437	13	2.92	1.1	ND	24.31	5.15	83 54.5
3039	534817		5604513	1.4	-2	1.9	14	13.62	38	22126	25	5.51	1.2	ND	99.95	1.93	82 29.91
3077	530716		5601864	2	-2	3.6	14	8.11	24	12137	20	3.3	1.8	0.7	96.02	4.01	49 18.82
3078	529619		5600849	2.9	-2	1.6	20	14.04	40	21711	34	5.11	1.4	0.7	128.77	4.50	93 24.07
3079	526953		5599726	INF	INF	-2.0	19	5.76	17	13964	14	2.67	-0.2	-0.2	INF	5.90	57 68.37
3081	527591		5596893	1.6	-2	1.9	23	9.66	33	13897	31	5.64	1.0	ND	105.87	6.00	66 35.29
3082	526703		5595034	2.4	-2	2.0	23	7.87	24	9419	24	5.39	1.6	0.7	67.49	3.02	68 55.5
3083	530196		5595333	2.3	-2	2.6	20	15.82	56	35404	38	10.25	17.4	0.9	133.36	4.54	108 15.06
3084	531038		5596557	-0.5	-2	1.2	13	8.26	34	17497	22	4.3	1.0	0.6	101.60	2.01	56 8.41
3085	533615		5597254	3.4	-2	1.7	30	11.57	53	28756	39	8.79	1.6	0.7	139.99	3.41	85 18.58
8132	484720		5573707	3.5	-2	1.6	31	7.2	39	18617	36	6.42	ND	ND	113.00	7.63	77 37.12

Site #	Eastings NAD83 UTM Zone 15	Northing Method Units Detection limit	As INAA ppm 0.5	Au INAA ppb 2	Au FA ppb varies*	Cu ICP-OES ppm 5	Co ICP-MS ppm 0.05	Cr ICP-OES ppm 4	Fe ICP-OES ppm 5	Ni ICP-OES ppm 5	Pb ICP-MS ppm 0.05	Pd FA ppb varies*	Pt FA ppb varies*	REEs*	U ICP-MS ppm 0.05	Zn ICP-OES ppm 2	LOI Grav. % 0.01
8133	490154	5578216 3.4	-2	3.1		29	8.39	46	23549	36	7.68	1.5	0.6	129.73	2.43	74	21.41
8134	489881	5583611 2.7	-2	2.2		20	8.54	42	22342	32	6.87	1.0	0.6	109.38	1.46	76	15.69
8135	491536	5584710 4.7	-2	5.9		16	4.54	24	11180	20	4.62	1.3	0.5	65.92	2.83	57	49
8136	491581	5585279 4.1	-2	INF		17	3.87	23	10374	20	4.13	INF	INF	60.79	3.11	61	52.63
8137	490967	5586076 4.5	-2	-2.0		19	2.89	18	8320	16	3.22	0.4	-0.2	53.10	3.26	53	55.68
8138	492960	5589544 1.9	-2	2.2		17	5.28	31	14044	22	4.26	1.2	0.6	87.69	0.94	44	26.7
8139	493463	5591476 2.7	-2	4.1		29	11.06	49	25609	39	6.87	1.4	0.6	150.26	2.60	92	23.38
8141	496055	5593742 3.1	-2	3.1		29	14.34	50	29360	42	9.21	1.4	0.5	147.93	1.34	103	21.88
8142	508179	5595759 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8143	506191	5598690 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8144	503787	5600828 3.9	-2	2.6		27	4.65	25	11245	24	5.25	1.3	0.5	87.82	3.30	40	29.56
8145	504522	5602644 1.6	-2	1.7		21	7.84	37	19942	31	6.14	1.0	0.6	88.70	0.91	95	35.33
8146	502749	5604448 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8147	500747	5605734 1.4	-2	1.1		13	7.93	22	9769	19	3.52	ND	0.5	86.52	1.33	55	13.62
8148	500943	5610401 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8149	501739	5611366 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8151	502850	5611305 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8152	502005	5614207 3.7	-2	2.3		33	9.23	15	12117	20	7.58	ND	0.6	50.74	0.51	167	60.21
8153	503089	5614522 1.7	-2	1.3		15	3.87	13	7178	15	3.86	ND	ND	40.67	0.75	42	53.95
8154	501368	5619396 3.1	-2	INF		17	3.82	17	11059	16	3.63	INF	INF	65.18	1.00	58	67.4
8155	502419	5619487 3.6	-2	1.3		21	6.61	21	12350	17	4.54	ND	ND	112.61	1.33	63	46.93
8156	502227	5620544 7.8	-2	2.0		40	5.73	15	14446	17	3.44	1.3	0.5	90.09	1.90	95	54.11
8157	505079	5620214 2.5	-2	1.8		21	15.63	41	27134	37	5.38	1.0	ND	140.70	1.07	96	21.93
8158	507471	5618649 4.5	-2	4.6		35	10.96	33	23674	33	6.05	1.3	0.7	126.34	2.08	62	18.03
8159	508302	5620031 4	-2	1.7		27	9.01	36	23144	29	12.16	ND	ND	175.06	1.30	88	27.09
8161	509854	5620629 2.1	-2	1.6		16	7.2	23	16947	19	3.62	ND	ND	127.29	1.02	58	11.56
8162	511336	5621695 3.5	-2	INF		32	22.11	39	24347	37	3.45	INF	INF	233.15	1.41	114	44
8163	512153	5619263 4.6	-2	1.5		10	4.17	16	11412	12	4.12	ND	ND	71.01	0.56	92	63.92
8164	509834	5618103 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8165	511690	5616824 4.3	-2	1.9		39	18.09	44	30790	45	4.2	1.2	ND	252.67	2.06	122	31.54
8166	510378	5615160 3.4	-2	INF		37	25.65	52	30630	52	4.36	INF	INF	203.40	1.59	113	35.98
8167	508280	5614081 1.7	-2	1.6		16	2.66	13	4607	14	1.59	ND	ND	32.75	0.44	38	37.13
8168	510320	5613994 1.5	-2	2.2		26	5.66	31	9650	24	4.27	1.3	0.6	62.84	1.01	51	37.91
8169	510468	5612687 2.2	-2	1.8		31	4.1	35	6381	26	3.19	1.4	0.5	56.86	1.35	71	47.9
8171	510883	5611755 1.5	-2	ND		31	3.79	32	6573	26	2.54	ND	ND	49.14	1.20	58	48.91
8172	511525	5611207 0.8	-2	1.2		18	3.05	24	5363	20	3.32	1.3	ND	44.62	0.97	28	31.42
8173	510483	5609587 1.2	-2	1.9		10	7.7	32	8969	22	3.51	0.9	0.7	64.51	0.85	40	17.46
8174	511313	5609787 2	-2	1.7		13	8.14	26	7950	23	4.6	ND	ND	62.56	1.16	41	26.39
8175	511482	5609016 1.5	-2	2.5		46	7.46	43	13781	35	4	1.2	ND	81.05	1.16	54	56.89
8176	511661	5608574 1.2	-2	2.7		62	7.13	46	8057	41	3.81	1.3	0.6	84.03	1.30	71	57.13
8177	510046	5608006 1.6	-2	1.9		38	7.73	38	6955	44	3.54	1.3	ND	56.49	0.78	70	62.87
8178	509824	5607675 1.3	-2	3.1		38	4.4	29	5122	31	2.14	1.3	0.6	44.67	0.72	63	57.47
8179	510006	5606289 1.9	-2	2.7		52	7.9	31	17070	31	3.13	1.3	ND	62.17	0.90	89	62.13
8182	507606	5605716 2.8	-2	2.7		15	7	27	12674	25	5.68	1.0	ND	65.33	0.77	53	30.2
8183	508714	5604908 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8184	509659	5604220 1.7	-2	3.2		36	13.53	48	24361	40	6.59	1.6	0.7	134.92	1.97	92	35.25
8185	509203	5602388 2.1	-2	2.5		31	7.66	26	14703	28	5.03	1.3	ND	91.13	0.80	71	49.93
8186	506875	5601952 2.9	-2	-4.0		24	4.16	22	7032	21	6.58	0.9	0.6	82.43	1.33	66	65.38
8188	510895	5598744 2.5	-2	3.5		41	14.98	53	23854	46	6.84	1.5	0.7	194.33	1.57	94	34.01
8189	511332	5598089 5.5	-2	INF		35	5.33	27	15187	23	5.36	INF	INF	86.68	3.13	91	49.08
8191	511381	5596343 2.3	-2	4.5		18	8.91	37	20792	28	5.86	1.4	0.7	137.82	1.86	58	7.76
8192	511019	5594371 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8193	499792	5593250 2.3	-2	3.5		20	8.53	43	22043	31	7.17	1.3	0.6	138.00	2.09	66	12.2
8194	499220	5593258 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8195	497707	5592192 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8196	499505	5591354 2	-2	2.7		24	10.83	51	27681	37	10.44	1.3	0.6	136.33	1.72	79	10.63
8197	497615	5590780 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8198	495156	5591836 1.7	-2	2.7		23	5.26	24	11253	24	4.1	1.2	ND	85.82	2.78	50	44.38
8199	495087	5589897 3.1	-2	4.6		30	9.55	43	23296	35	6.84	1.4	0.8	137.79	2.19	78	24.19
8201	494930	5588323 2.8	-2	-1.0		19	3.96	18	9095	19	3.3	0.3	0.5	62.49	2.27	50	59.97
8202	496690	5588485 1.9	-2	2.8		24	9.66	46	24997	34	6.69	1.2	0.7	136.85	1.94	72	12.88
8203	499736	5588028 2.7	-2	1.6		22	10.9	41	23366	31	6.34	1.1	0.8	137.98	2.30	65	10.97
8204	499579	5587298 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8205	496546	5586537 2.5	-2	2.1		37	6.23	22	11136	30	4.27	1.0	0.5	71.65	1.22	95	53.11
8206	498357	5584304 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8207	495866	5584046 4.2	-2	3.7		26	11.9	50	29067	37	12.01	1.6	1.0	134.67	2.01	80	13
8208	493774	5581078 4.3	-2	1.2		20	4.94	24	11931	21	7.51	ND	ND	65.84	2.44	45	36.34
8209	500487	5583584 2.3	-2	1.7		8	0.8	5	2022	8	0.53	ND	ND	18.10	1.66	8	91.17
8211	501367	5584091 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8212	501972	5585137 2.7	-2	-1.0		22	6.12	25	13528	26	4.6	0.3	0.4	67.71	1.83	81	56.95
8213	500522	5587492 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Site #	Easting NAD83 UTM	Northing Method Units Detection limit	As INAA ppm 0.5	Au INAA ppb 2	Au FA ppb varies*	Cu ICP-OES ppm 5	Co ICP-MS ppm 0.05	Cr ICP-OES ppm 4	Fe ICP-OES ppm 5	Ni ICP-OES ppm 5	Pb ICP-MS ppm 0.05	Pd FA ppb varies*	Pt FA ppb varies*	REEs* ppm	U ICP-MS ppm 0.05	Zn ICP-OES ppm 2	LOI Grav. % 0.01
8214	503639	5586140 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8215	500993	5581144 2	-2	INF	11	3.08	16	4928	11	4.99	INF	INF	50.39	0.72	110	74.41	
8216	502029	5579208 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8217	503325	5579828 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8218	506298	5581770 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8219	513785	5583692 5	-2	INF	23	6.45	37	13021	25	6.11	INF	INF	102.38	1.07	93	52.45	
8221	514159	5581428 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8222	509713	5578544 2.8	-2	2.0	16	1.12	5	4009	9	0.83	1.0	0.7	17.82	6.73	9	88.85	
8223	510436	5580786 1.9	-2	1.9	24	8.2	43	16080	32	6.69	0.9	ND	97.36	0.64	117	45.66	
8224	505258	5579673 3	-2	3.2	20	8.72	39	21634	28	5.88	1.2	0.6	129.93	3.23	60	10.75	
8225	503983	5576807 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8226	504570	5575107 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8227	502318	5573581 1	-2	5.3	29	5.09	14	5930	17	1.53	1.1	0.5	77.79	2.20	73	65.51	
8228	503053	5572826 1.7	-2	3.7	17	5.5	24	12954	18	2.86	1.3	1.6	78.21	9.84	40	50.45	
8229	504504	5573572 2.1	-2	5.5	28	8.28	39	21035	29	6.65	1.0	0.6	131.01	5.74	70	22.41	
8231	506883	5576311 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8232	507744	5575050 1.7	-2	2.2	23	7.19	28	14149	23	3.71	1.0	ND	101.14	10.73	63	36.37	
8233	509954	5575001 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8234	511511	5575351 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8235	511572	5574447 3.8	-2	3.4	32	6.36	32	14172	28	4.19	1.6	1.3	94.53	5.31	47	35.24	
8236	514654	5575025 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8237	514144	5574131 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8238	515770	5572901 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8239	516794	5569411 2.6	-2	2.3	36	14.32	57	32241	46	9.36	1.3	0.8	170.74	2.62	95	17.66	
8241	520051	5569590 3	-2	2.0	30	8.41	43	21032	32	6.36	1.3	0.6	121.39	3.12	70	23.15	
8242	518856	5567952 2	-2	2.2	13	1.21	7	2815	8	2.42	1.0	ND	24.69	1.27	14	88.89	
8243	516729	5567476 2.7	-2	2.1	30	7.62	34	17486	28	5.32	1.3	0.8	123.97	2.17	74	44.27	
8244	513941	5568837 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8245	513755	5571140 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8246	511136	5572293 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8247	510527	5571277 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8248	512058	5570024 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8249	510783	5568467 2.8	-2	1.9	28	11.44	44	26563	34	7.92	1.2	0.8	147.76	2.32	71	11.36	
8251	509363	5567148 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8252	506762	5566947 2.6	-2	1.3	12	2.83	14	6305	13	4.69	ND	ND	97.18	2.86	52	50.21	
8253	507240	5570116 3.1	-2	1.6	14	4.54	19	9822	18	3.79	1.0	0.6	75.20	9.39	70	49.25	
8254	507155	5569594 3	-2	2.2	14	4.64	20	10398	19	4.87	1.2	0.5	78.89	7.29	71	47.19	
8255	505349	5571059 3.8	-2	2.3	25	8.41	37	20942	28	9.15	1.2	0.7	135.13	9.55	70	23.99	
8256	505546	5568934 3.1	-2	5.3	27	5.95	23	15764	22	4.39	1.4	0.8	96.58	22.50	47	17.26	
8257	503694	5567944 2.3	-2	2.5	19	5.9	27	15001	21	4.51	1.2	0.6	97.07	8.01	58	38.1	
8258	501051	5567361 2.7	-2	2.7	20	4.18	21	10422	19	4.12	1.3	0.5	100.53	13.65	54	51.05	
8259	503753	5571674 2.1	-2	3.0	26	8.08	37	18559	28	5.92	1.4	0.7	108.13	8.74	70	29.15	
8261	501214	5571169 2.2	-2	3.6	24	8.86	41	22354	29	6.72	1.3	0.7	133.46	4.28	66	17.82	
8262	501059	5572345 2.2	-2	2.3	25	9.04	44	22927	32	6.89	1.2	0.7	127.05	4.52	67	17.22	
8263	500471	5574271 3	-2	4.1	32	9.23	44	21917	36	7.12	1.3	0.7	157.56	6.52	77	26.53	
8264	500182	5576353 1.2	-2	2.7	22	9.14	39	21978	28	6.06	1.1	0.5	105.90	1.75	83	20.15	
8265	500294	5577194 3.4	-2	3.0	12	2.53	10	4153	13	7.53	0.3	0.5	32.63	1.44	40	78.94	
8266	501271	5577790 2.2	-2	3.0	32	6.19	21	10558	23	4.42	1.3	0.5	54.38	0.95	160	67.61	
8267	498987	5581460 5.1	-2	3.5	26	1.93	9	2159	14	2.26	1.6	ND	48.01	3.61	55	55.9	
8268	497195	5580278 5.4	-2	INF	15	5.56	13	5071	17	16.08	INF	INF	52.12	4.96	67	52.2	
8269	497867	5578242 3.6	-2	2.3	17	4.6	30	13612	20	4.75	1.0	3.5	73.06	1.79	60	50.9	
8271	498913	5577349 15	-2	3.2	56	2.46	40	11113	17	1.29	3.6	1.0	46.89	42.88	24	23.37	
8272	498765	5575647 3.5	-2	2.0	21	7.15	40	20997	29	6.22	1.2	0.6	102.23	2.50	63	20.63	
8273	499716	5573453 2.6	-2	2.9	27	9.33	49	26142	33	7.14	1.5	0.7	134.28	3.79	72	16.92	
8274	498403	5572733 2.7	-2	2.1	26	6.06	34	26411	27	4.53	1.1	0.6	90.95	7.91	72	51.37	
8275	498446	5571454 2.5	-2	2.8	28	8.44	27	13990	27	4.91	1.4	0.5	122.48	9.82	75	53.12	
8276	497281	5571515 2.7	-2	3.4	23	7.57	40	21647	29	5.91	1.5	0.8	130.25	5.03	63	22.79	
8277	495880	5572362 2.6	-2	3.9	28	7.89	46	24038	32	6.1	1.2	0.9	120.41	3.17	75	20.91	
8278	495859	5574526 2.3	-2	3.9	19	6.28	34	19769	25	4.54	1.5	0.7	120.44	3.62	49	13.34	
8279	493317	5574945 2.3	-2	3.3	17	3.45	23	8813	19	3.25	1.9	0.8	60.78	3.53	64	52.33	
8281	493207	5578654 2.5	-2	2.8	27	9.4	47	24889	33	6.65	1.8	0.9	123.42	2.21	72	16.44	
8282	491158	5576465 2.6	-2	4.0	15	4.16	25	11247	22	4.63	0.4	0.6	61.07	1.17	53	64.66	
8283	491154	5574854 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8284	489287	5575838 2.6	-2	4.9	34	11.6	61	33442	44	8.3	2.2	1.0	152.53	2.70	90	13.88	
8285	486907	5572214 3.5	-2	3.9	34	13.4	55	33480	42	9.5	1.7	1.0	172.59	3.00	91	13.42	
8286	488633	5569341 3.1	-2	1.0	36	12.31	56	30818	41	8.51	0.8	0.8	161.52	3.29	88	15.84	
8287	491389	5573403 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8288	493321	5573223 2.6	-2	3.6	26	5.26	29	14545	25	4.68	1.6	0.8	83.49	4.14	73	49.6	
8289	493937	5571519 2.6	-2	2.1	18	4.77	27	13847	21	4.76	1.5	0.6	82.41	2.39	58	49.33	
8291	493600	5570131 2.9	-2	3.8	36	10.42	49	26740	38	10.53	1.6	0.9	147.22	3.70	83	21.53	
8292	495287	5569436 2.4	-2	3.1	29	10.17	52	28544	37	7.22	1.6	0.8	139.26	3.29	80	21.29	

Site #	Easting NAD83 UTM Zone 15	Northing Method Units Detection limit-->	As INAA ppm 0.5	Au INAA ppb 2	Au FA ppb varies*	Cu ICP-OES ppm 5	Co ICP-MS ppm 0.05	Cr ICP-OES ppm 4	Fe ICP-OES ppm 5	Ni ICP-OES ppm 5	Pb ICP-MS ppm 0.05	Pd FA ppb varies*	Pt FA ppb varies*	REEs* ppm	U ICP-MS ppm 0.05	Zn ICP-OES ppm 2	LOI Grav. %
8293	494896	5567518 2.8	-2	3.1	34	8.52	39	20757	33	6.14	1.4	0.7	127.97	4.67	70	34.11	
8294	496116	5565798 2.9	-2	3.5	32	10.61	51	29705	39	8.41	1.4	0.8	176.61	3.69	81	18.92	
8295	498848	5564780 2.7	-2	3.3	22	9.12	47	26447	32	6.88	1.4	0.8	136.10	1.65	70	13.16	
8296	499586	5563312 2	-2	1.7	17	5.45	19	8973	20	6.16	ND	0.8	199.17	6.86	39	47.57	
8297	500199	5563138 2.5	-2	2.2	16	6.7	19	9820	16	6.66	ND	ND	213.29	7.21	55	53.55	
8298	499735	5562108 2.3	-2	2.1	15	4.23	18	11268	15	8.7	1.0	0.5	221.04	13.83	65	54.7	
8299	501628	5561760 1.9	-2	2.0	22	9.31	45	26300	32	7.27	1.1	0.6	214.27	3.34	73	19.07	
8301	502199	5563093 0.9	-2	2.7	18	2.36	15	5407	12	4.64	1.1	0.7	109.54	3.03	35	39.6	
8302	503129	5564015 3	-4	3.1	22	15.36	32	31044	23	8.14	1.4	0.7	340.70	4.53	86	32.73	
8303	503957	5563613 3	-2	2.7	17	4.03	15	6288	11	4.39	1.1	0.6	240.38	3.50	61	51.69	
8304	505130	5563841 2.3	-2	-1.0	16	2.2	13	5901	13	2.74	0.4	0.7	63.58	4.88	51	60.04	
8305	505392	5562270 2.2	-2	-3.0	18	2.49	14	5963	17	2.98	-0.3	0.3	54.84	3.14	61	58.04	
8306	510045	5563162 2.6	-2	2.6	29	10.34	47	27631	34	7.58	1.5	1.0	160.09	2.20	74	11.73	
8307	511117	5561960 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8308	512866	5560539 3.1	-2	-2.0	26	12.32	30	33767	21	4.18	0.3	-0.2	336.16	1.67	80	47.25	
8309	513600	5559027 3.8	-2	-1.0	15	2.98	13	4510	13	2.67	0.3	0.4	56.34	1.71	68	55.1	
8311	515415	5559082 1.7	-2	2.7	13	2.87	21	6393	14	5.04	1.0	1.1	53.48	0.44	77	49.57	
8312	517159	5558571 1.6	-2	2.5	38	9.91	22	8860	23	6.25	1.2	0.6	291.51	4.65	66	60.38	
8313	518092	5558880 2.1	-2	3.2	26	6.89	29	14130	23	4.92	1.4	0.7	154.14	2.36	80	46.26	
8314	517004	5559209 2.6	-2	3.1	21	4.92	16	4983	21	4.61	1.2	0.5	146.36	1.97	35	49.04	
8316	518253	5560422 2.8	-2	-1.0	19	7.14	21	26637	20	4.32	0.2	0.2	172.97	2.34	73	53.71	
8317	519632	5561526 2.6	-2	-2.0	18	5.31	25	12248	25	4.18	0.3	0.2	107.38	1.09	61	40.07	
8318	519911	5562039 2.8	-2	3.3	20	7.42	34	19918	25	6.1	1.4	0.8	132.96	1.04	90	30.94	
8319	520919	5562758 2.1	-2	-2.0	18	3.94	18	8356	16	4.31	-0.2	-0.2	86.95	0.77	62	66.08	
8321	520823	5563334 3.1	-2	-1.0	22	6.3	29	24153	23	5.08	0.4	0.4	128.80	1.23	82	52	
8322	521450	5562764 4.3	-2	-1.0	21	5.3	20	9713	22	11.24	0.2	0.4	85.24	0.68	73	56.22	
8323	522897	5561100 3.9	-2	4.0	37	7.18	41	19930	31	5.71	2.5	1.0	108.28	3.43	90	42.14	
8324	523643	5561488 2.7	-2	-3.0	12	2.71	11	5612	12	4.11	0.4	-0.3	43.34	0.52	63	71.56	
8325	523985	5562684 3.5	-2	4.4	27	8.69	40	21591	36	6.22	1.9	0.7	116.83	2.49	76	38.78	
8326	525314	5562396 3.6	-2	3.9	24	10.87	49	28692	34	6.47	1.8	1.0	152.98	2.29	76	9.64	
8327	526807	5562236 2.5	-2	3.9	11	1.84	4	4553	9	1.85	1.8	0.6	19.08	0.87	51	38.9	
8328	531312	5559558 4.1	-2	7.2	44	9.63	47	25353	31	6.31	2.4	1.0	230.60	2.66	82	30.37	
8329	531682	5558945 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8331	532507	5559685 3.9	-2	-2.0	15	2.72	21	6389	11	3.1	0.4	-0.2	97.47	1.66	40	53.68	
8332	532142	5560412 2.5	-2	1.2	24	8.56	36	21472	25	4.8	1.0	0.6	170.47	1.59	59	15.36	
8333	532140	5561448 2.8	-2	1.6	36	10.83	45	26975	31	5.78	1.1	0.7	223.77	2.50	79	24.29	
8334	533000	5561428 2.6	-2	3.5	29	7.4	37	20513	28	4.59	1.0	0.5	235.33	1.64	70	37.7	
8336	535448	5560485 1.5	-2	2.5	26	5.5	18	4953	22	3.35	1.1	ND	198.18	1.30	51	53.79	
8337	533899	5563140 1.9	-2	2.1	34	7.82	39	18479	29	4.6	1.5	1.3	174.61	1.83	77	33.56	
8338	535350	5562809 3.1	-2	2.2	30	8.31	38	19220	26	6.08	1.3	0.6	212.33	3.09	73	34.21	
8339	535504	5564085 2.2	-2	-1.0	36	7.19	34	15759	33	4.28	0.6	0.7	164.05	1.75	65	38.12	
8341	535069	5565481 3.4	-2	2.5	30	9.25	46	25018	33	6.69	1.6	1.1	143.89	1.92	71	16.96	
8342	532312	5565105 2.1	-2	1.8	11	3.05	23	6027	11	4.13	ND	ND	62.01	0.46	65	29.59	
8343	531457	5565604 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8344	529997	5564688 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8345	527990	5563463 1.4	-2	2.6	17	5.33	28	15121	20	4.3	1.3	0.6	107.70	1.21	46	18.52	
8346	528430	5565816 3	-2	2.0	27	5.22	28	12268	25	4.14	0.4	0.4	84.43	1.86	47	41.76	
8347	525781	5565449 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8348	525144	5564154 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8349	522647	5564074 2.3	-2	1.9	20	1.33	10	4311	12	2.5	1.1	ND	54.34	1.05	11	85.47	
8351	521983	5564765 3.3	-2	1.9	24	9.42	45	25777	33	6.51	1.5	0.7	138.83	2.20	65	12.85	
8352	519633	5564409 5	-2	1.1	14	1.53	11	4341	9	1.71	1.3	ND	34.65	5.15	8	85.01	
8353	518067	5565890 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8354	517001	5563210 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8355	511210	5566413 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8356	509761	5564817 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8357	508632	5565383 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8358	506198	5564468 2.3	-2	-3.0	17	3.66	20	11001	16	5.06	-0.3	-0.3	109.91	4.32	67	60.41	
8359	503945	5565727 5.3	-2	1.4	20	2.9	15	4716	15	3.36	1.2	ND	134.94	8.22	62	40.39	
8361	503552	5565085 1.8	-2	2.6	16	1.86	11	2839	11	3.7	1.3	ND	112.68	1.87	31	73.46	
8363	499933	5568884 1.8	-2	2.6	28	5.76	28	13414	25	5.48	1.5	0.7	99.29	16.14	80	46.05	
8364	497074	5570176 2.6	-2	5.0	28	9.46	46	22816	34	7.12	1.5	0.7	158.61	4.90	78	26.94	
8365	493866	5567974 2.9	-2	2.2	43	18.04	34	28968	33	6.6	1.2	0.6	228.43	4.07	133	45.31	
8366	492936	5567902 3.4	-2	2.3	40	10.46	51	27984	42	9.2	1.7	0.8	165.28	4.69	87	23.29	
8367	488083	5566681 3	-2	2.4	33	7.9	34	18799	35	7.08	1.3	0.7	120.61	3.44	96	45.64	
8368	488318	5568135 INF	INF	2.6	24	8.1	36	18724	34	6.92	1.3	0.6	INF	2.25	80	42.56	
8369	486448	5568377 2.6	-2	2.6	28	7.42	37	19091	33	7.59	1.3	0.6	106.80	4.80	76	34.98	
8371	485128	5567832 3.1	-2	2.9	25	8.35	41	23087	35	7.51	1.4	0.7	138.91	3.38	67	19.66	
8372	484814	5566868 3	-2	-2.0	35	10.3	50	25799	41	8.52	0.4	0.4	141.04	5.41	80	24.19	
8373	482143	5567457 2.7	-2	2.6	28	10.64	46	26169	37	7.73	1.4	1.1	147.64	5.21	77	15.22	
8374	482009	5566260 3	-2	2.8	28	9.45	42	24083	35	7.23	1.4	0.9	127.28	7.05	69	22.4	

Site #	Eastings	Northings	As	Au	Au	Cu	Co	Cr	Fe	Ni	Pb	Pd	Pt	REEs*	U	Zn	LOI
	NAD83	Method	INAA	INAA	FA	ICP-OES	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-MS	FA	FA		ICP-MS	ICP-OES	Grav.
	UTM	Units	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	%
	Zone 15	Detection limit	0.5	2	varies*	5	0.05	4	5	5	0.05	varies*	varies*		0.05	2	0.01
8375	488819		5565088	3	-2	3.1	37	11.18	54	29962	44	9	1.6	0.9	144.59	3.01	96 24.55
8376	488551		5563926	3.8	-2	2.9	36	12.32	55	31284	44	8.68	1.4	0.8	161.05	2.80	87 18.49
8377	491211		5564233	2.5	-2	2.7	37	10.61	53	29910	42	8	1.3	0.7	144.20	2.98	80 20.01
8378	493355		5562898	2.6	-2	2.4	36	13.12	66	36374	48	9.34	1.4	0.7	177.31	2.77	97 13.46
8379	494704		5562044	3	-2	3.8	31	9.71	49	30138	39	8.51	1.6	0.7	140.63	1.76	89 25.25
8381	498503		5558933	2.1	-2	2.6	21	8.12	43	22887	30	5.86	1.4	1.1	133.37	1.26	53 6.79
8382	499489		5558001	2.2	-2	2.3	30	8.4	43	22629	32	5.87	1.4	0.7	113.17	1.55	62 21.48
8383	500145		5555804	2.7	-2	2.3	27	12.27	60	35892	41	7.7	1.3	1.0	167.03	1.74	82 8.77
8384	502293		5554758	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8385	504486		5555585	2.1	-2	3.1	21	8.68	43	25811	28	5.81	1.5	0.8	141.58	1.38	58 7.12
8386	506876		5555587	2.4	-2	2.9	25	8.49	44	24684	31	6.3	1.8	0.7	127.55	1.54	63 12.17
8387	508190		5557766	2.9	-2	2.1	30	9.14	49	26509	36	6.39	1.8	0.8	131.13	1.71	70 13.83
8388	510878		5553711	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8389	511839		5555268	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8391	512830		5554459	1.5	-2	3.3	19	2.74	18	4717	16	3.73	1.8	0.8	123.13	1.50	44 53.32
8392	518396		5554197	1.7	4	-3.0	17	3.09	15	10013	11	4.57	-0.3	-0.3	97.29	1.79	55 68.98
8393	520337		5553896	3.1	-2	9.9	17	10.36	43	23523	27	5.5	1.3	0.7	133.98	1.92	69 16.83
8394	521093		5554831	4.3	-2	5.1	23	15.02	58	35993	41	7.01	1.4	0.8	172.52	2.39	106 21.82
8395	520336		5555742	3	-2	3.3	22	9.69	42	23150	29	5.34	1.3	0.7	148.14	2.99	72 32.78
8396	520336		5556517	3.4	-2	7.5	23	12.53	52	31295	37	6.29	1.2	0.7	166.16	2.33	94 21.62
8397	523008		5555347	2.9	-2	1.3	41	14.2	44	31553	30	9.62	ND	ND	269.61	3.70	93 38.88
8398	523714		5555370	2.5	-2	5.1	37	5.99	32	23721	27	5.44	1.4	0.6	155.22	1.67	92 54.31
8399	523425		5554857	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8401	524151		5554721	2.2	-2	10.1	37	5.82	29	13355	25	4.35	1.4	0.6	156.03	1.41	74 54.49
8402	524157		5555835	2	-2	4.1	37	8.26	31	15250	26	3.93	1.3	0.7	168.83	1.55	74 52.42
8403	525041		5556444	2.5	-2	16.9	29	10.2	44	23881	35	8.52	1.3	0.6	114.21	1.48	82 33.02
8404	526583		5553787	2.4	-2	10.8	25	10.11	50	27986	30	5.99	1.2	0.8	143.83	2.86	70 11.54
8405	527895		5555381	2.1	-2	3.3	36	11.01	53	30909	38	5.98	1.8	0.7	180.46	3.27	94 22.35
8406	528494		5556404	2.7	-2	5.5	40	11.42	52	29453	36	7.24	1.9	0.8	196.87	3.18	94 26.59
8407	528985		5557437	1.6	-2	7.4	35	10.64	49	26908	33	5.52	1.5	0.8	182.95	3.25	87 25.35
8408	529994		5556447	2.1	-2	10.2	20	6.94	34	17711	25	6.04	1.2	0.6	94.63	1.25	60 23.86
8409	533611		5556931	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8411	534249		5557917	1.6	-2	10.0	27	10.69	50	29142	36	6.18	1.5	0.8	142.69	1.99	78 16.32
8412	529986		5558859	2.1	-2	11.6	32	11.33	43	22810	35	7.32	1.5	0.7	120.26	1.31	90 37.72
8413	529316		5558505	1.8	-2	2.8	19	7.68	30	15636	25	4.13	1.2	0.8	95.67	1.04	67 25.99
8414	526603		5556888	1.6	-2	2.0	17	7.91	37	20499	26	6.31	1.2	0.8	118.40	1.70	57 9.62
8415	526593		5557549	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8416	526386		5558507	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8417	526625		5559878	1.2	-2	7.2	13	5.57	28	13181	19	3.86	1.2	0.9	103.88	1.53	42 9.65
8418	523730		5557869	1.7	-2	2.1	19	10.37	45	25115	30	5.58	1.2	0.6	135.84	3.26	80 14.26
8419	521932		5558008	1.6	-2	5.7	24	5.81	21	9665	26	3	1.1	0.8	95.75	1.65	59 51.78
8421	520861		5558720	3.2	-2	1.0	33	7.11	37	20883	30	5.1	0.6	0.6	95.22	2.91	79 41.09
8422	517431		5556903	1.6	-2	2.5	19	4.8	18	8369	19	3.2	1.2	0.8	62.14	1.43	74 48.73
8423	516998		5555751	3.4	-2	8.7	21	10.33	47	28254	30	5.21	1.0	0.7	151.98	1.98	80 17.16
8424	513947		5555594	-0.5	-2	2.4	17	1.69	13	4180	10	4.3	ND	ND	99.17	1.48	22 36.6
8425	512653		5556725	1.2	-2	0.9	19	5.53	29	12711	21	4.01	ND	0.8	136.72	1.13	76 17.3
8426	512136		5556287	2.1	-2	-2.0	24	7.11	21	9033	19	3.19	0.3	0.2	169.52	1.33	66 44.99
8427	512019		5555884	3.5	-4	2.3	32	10.37	35	23706	20	5.49	1.7	0.8	452.36	2.05	87 42.14
8428	508114		5560192	2.8	-2	4.6	20	7.14	34	21579	26	4.48	1.5	0.7	111.72	1.02	52 6.97
8431	503049		5558257	3.2	-2	2.3	24	8.33	37	19093	27	5.98	1.2	0.6	125.38	1.01	127 49.47
8432	501802		5557529	2.3	-2	2.6	22	7.64	33	13156	25	6.01	1.2	0.5	82.05	0.60	229 58.89
8433	496019		5563069	2.3	-2	2.1	23	8.77	36	18932	30	5.79	1.2	0.5	147.41	2.69	95 35.72
8434	494550		5563625	2.4	-2	1.4	33	10.13	52	28443	41	7.6	0.9	ND	169.09	3.64	87 22.06
8435	494866		5564853	2.7	-2	2.3	41	8.36	34	20513	35	6	1.2	0.6	134.65	3.57	118 54.3
8436	493799		5565078	1.7	-2	2.2	32	12.53	57	31668	46	7.6	1.3	0.7	151.94	2.70	106 21.6
8438	491550		5566277	2.8	-2	3.7	31	6.55	34	20339	31	8.93	1.6	0.9	108.52	2.38	68 23.31
8439	487903		5566044	3	-2	2.3	36	12.39	56	33888	47	9.06	1.1	0.6	159.40	1.70	91 13.37
8441	486731		5566091	1.8	-2	11.1	27	9.68	45	26198	34	6.4	1.1	0.6	107.42	1.90	114 27.63
8442	486072		5565489	2.4	-2	4.3	36	6.27	31	19657	27	5.11	1.8	0.8	100.28	1.93	129 41.15
8443	484977		5565922	2.9	-2	10.1	35	8.62	46	25127	35	6.96	1.9	0.5	130.86	5.30	79 26.96
8444	484792		5564050	2.8	-2	8.7	49	14.42	44	35851	40	6.59	1.3	0.6	182.85	1.82	118 41.34
8445	485364		5562939	2.2	-2	3.4	37	9.11	37	23389	30	6.65	1.3	0.5	238.79	3.37	84 50.86
8446	484820		5562374	1.9	-2	-1.0	28	11.06	48	27126	38	7.78	0.3	0.7	177.12	1.76	99 29.32
8447	485931		5561308	2.7	-2	5.3	35	7.04	31	19033	30	4.78	2.0	0.7	91.43	2.49	58 19.37
8448	485967		5560082	2.4	-2	6.2	37	9.47	55	30292	44	8.32	1.8	0.9	156.62	2.14	85 18.67
8449	486246		5557399	2.8	-2	8.9	43	10.39	60	32663	48	7.94	1.9	0.9	166.30	2.95	95 18.33
8451	485641		5554974	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8452	488271		5554289	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8453	488808		5555727	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8454	488552		5557243	2.8	-2	1.2	37	11.96	61	36762	46	8.47	1.0	0.5	181.03	3.02	95 15.88
8455	488216		5558430	3.3	-2	5.8	35	11.52	60	34148	44	8.22	1.9	0.9	171.08	2.59	89 14.9

Site #	Easting NAD83 UTM	Northing Method Units Detection limit-->	As	Au	Au	Cu	Co	Cr	Fe	Ni	Pb	Pd	Pt	REEs*	U	Zn	LOI	
			INAA	INAA	FA	ICP-OES	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	FA	FA		ICP-MS	ICP-OES	Grav.
			ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	%
			0.5	2	varies*	5	0.05	4	5	5	5	0.05	varies*	varies*		0.05	2	0.01
8456	488628		5559652	INF	INF	8.8	38	11.35	60	32285	44	8.12	2.0	0.9	INF	2.83	89	15.74
8457	489795		5561290	2.5	-2	2.8	35	10.02	55	31759	42	7.62	1.6	0.7	152.48	2.58	85	16.93
8458	487843		5561820	2.6	-2	5.0	40	10.17	54	28887	44	10.52	1.7	0.8	151.03	2.75	88	21.23
8459	490535		5562593	3	-2	4.8	41	10.99	59	31742	45	8.36	1.7	1.0	147.83	3.20	93	19.55
8461	490938		5562055	3.5	-2	15.7	33	9.71	52	29101	41	6.62	1.7	0.8	141.61	2.56	84	19.67
8462	491848		5557578	2.6	-2	10.9	41	11.54	63	35337	48	8.37	1.6	0.8	175.19	3.22	97	17.23
8463	493165		5558269	2	-2	4.7	17	5.38	26	15951	21	3.77	1.2	0.6	98.62	1.19	42	11.67
8464	493670		5556867	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8465	496722		5555539	2.4	-2	13.2	23	8.77	47	27404	32	5.53	1.5	1.0	138.38	1.26	64	7.32
8466	497627		5557289	2.8	-2	4.9	30	9.7	52	29316	37	6.88	1.3	0.8	143.09	1.74	75	12.97
8467	496426		5557924	2.1	-2	-1.0	18	2.87	15	7740	14	2.24	0.2	0.5	65.34	4.14	85	52.2
8468	496925		5559219	2.3	-2	-2.0	13	3.61	14	5420	18	2	-0.2	-0.2	33.19	0.42	61	73.54
8469	499035		5555766	1.7	-2	4.4	26	11.57	59	35151	39	7.01	1.4	0.8	164.81	1.53	80	8.39
8471	499200		5554607	2.2	-2	4.3	23	8.52	44	26128	30	5.41	0.9	0.6	147.56	1.45	59	9.61
8472	498705		5552770	1.4	-2	3.7	23	11.06	56	33344	38	6.47	1.3	0.6	170.41	2.73	80	10.32
8473	499311		5552358	2.8	-2	2.6	32	10.98	57	31995	41	7.3	1.1	0.8	153.89	2.14	82	13.44
8474	500384		5552742	2.6	-2	13.8	32	10.91	56	31618	42	7.42	1.1	0.6	148.56	2.17	81	13.49
8475	501844		5553781	3.9	-2	-1.0	25	6.59	30	14010	27	7.82	0.4	0.5	126.59	1.93	81	51.62
8476	504183		5551192	1.8	-2	3.3	18	7.24	35	30007	22	3.18	1.4	0.8	147.73	1.65	65	21.08
8477	504472		5553014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8481	507557		5548423	5.2	-2	3.3	12	5.23	23	11500	13	2.45	1.1	0.6	101.18	2.26	65	27.59
8482	507192		5547741	7	-2	20.7	18	6.54	32	17630	17	3.3	1.2	0.7	111.27	2.86	86	40.55
8483	508310		5544768	1.7	-2	-2.0	43	6.18	21	14735	25	2.85	0.7	0.6	152.47	2.07	73	59.68
8484	508662		5545316	2.3	-2	4.1	36	12.25	45	26706	36	5.74	1.4	0.9	228.72	2.56	108	26.81
8485	510230		5544916	2.2	-2	-1.0	38	9.71	31	18742	31	3.88	0.6	0.6	210.89	2.88	80	47.63
8486	510176		5546056	1.1	-2	3.2	25	11.23	40	21661	35	5.26	1.1	0.6	183.49	1.36	91	24.95
8487	511085		5546138	2.2	-2	7.8	30	11.4	41	19449	38	4.72	1.3	0.7	308.91	2.24	105	27.39
8488	516324		5547597	2.3	-2	9.0	20	3.8	13	4367	18	2.15	1.5	0.9	78.07	1.00	64	53.77
8489	519301		5547410	2.3	-2	-2.0	24	4.98	30	32156	20	5.24	0.5	1.3	149.47	0.84	80	51.66
8491	519499		5548519	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8492	483296		5563265	2.9	-2	5.0	28	7.45	44	24753	35	7.82	1.4	0.7	136.06	3.74	75	18.72
8493	482150		5562233	2.6	-2	4.5	42	9.84	54	30799	45	7.98	1.3	0.8	139.71	6.26	92	21.92
8494	483459		5560406	2.1	-2	5.7	30	10.15	50	27011	40	7.32	1.1	0.9	158.04	1.79	80	12.07
8495	483796		5559425	2.2	-2	3.8	39	9.64	55	27196	40	7.92	1.9	0.7	153.94	2.69	92	18.77
8496	483056		5558608	2.6	-2	1.8	37	11.79	55	30946	41	8.82	1.0	ND	177.66	3.52	97	13.75
8497	483602		5556508	1.5	-2	1.4	213	11.77	17	29506	32	3.26	1.3	ND	129.52	2.49	95	61.05
8498	482641		5554950	3.6	-2	1.7	38	9.31	55	29899	44	8.18	10.1	9.9	142.97	2.83	82	20.51
8499	485329		5553210	2.2	-2	2.8	31	9.89	51	30431	36	6.3	1.8	0.8	182.78	2.58	69	18.1
8501	488240		5553048	1.8	-2	4.1	21	7.99	37	22112	28	5.46	1.6	0.8	146.44	1.70	59	11.15
8502	490020		5555106	3.8	-2	5.7	34	12.42	62	36838	45	9.11	5.3	1.3	176.40	2.30	93	14.34
8503	491134		5556000	2.6	-2	INF	27	5.66	33	25032	32	4.71	INF	INF	98.11	2.98	108	62.8
8504	492109		5554882	2.2	-2	3.9	33	13.52	66	37594	47	9.51	4.5	0.8	181.72	2.28	95	12.68
8505	495449		5553385	1.7	-2	5.3	30	9.42	46	27084	36	6.48	1.7	0.7	130.47	2.87	107	34.03
8506	495320		5552490	1.9	-2	2.4	26	7.21	32	17389	28	4.89	0.9	ND	122.18	1.68	75	43.56
8507	498363		5551293	2.4	-2	7.8	26	10.36	56	32100	38	6.96	1.8	0.9	165.15	3.38	83	15.82
8508	499531		5550994	2.6	-2	10.7	31	12.38	62	35426	43	8.45	1.2	ND	180.20	4.15	97	16.42
8509	500367		5551488	2.1	7	1.1	28	10.87	57	32934	39	7.7	ND	0.5	174.53	3.21	91	14.69
8511	501439		5549877	2.7	-2	5.5	27	8.5	41	23277	31	6.34	1.2	ND	157.03	1.78	71	23.18
8512	502969		5548648	2.4	-2	3.1	24	9.37	34	18089	24	4.48	1.0	ND	171.74	2.65	65	21.84
8513	507830		5550169	1.4	-2	2.9	8	0.9	15	2414	8	5.51	1.0	ND	51.62	0.37	24	33.58
8514	508447		5549638	10	8	1.0	20	7.08	30	17760	14	7.95	1.1	2.1	112.93	1.97	81	30.1
8515	508916		5550355	15	-2	-1.0	31	5.36	37	35796	20	3.49	1.9	2.0	166.05	2.24	47	20.96
8516	509089		5551435	3	-2	28.8	20	3.41	29	8092	16	4.88	3.1	1.9	63.28	0.82	77	53.75
8517	509510		5551575	2.3	-2	1.0	22	7.04	43	22057	24	6.18	-0.3	1.6	138.49	0.97	84	32.06
8518	509068		5552370	2.6	-2	3.0	21	8	41	35390	23	4.98	-0.3	1.5	217.19	1.04	82	43.14
8519	510062		5552283	14	8	4.1	29	4.4	22	21085	16	33.43	1.8	0.7	143.37	1.33	79	53.22
8521	509150		5552967	1.9	-2	1.0	24	2.39	20	3000	19	3.26	-0.3	1.8	103.16	2.68	38	61.75
8522	510012		5554102	0.9	-2	2.0	28	1.87	8	4547	8	1.8	-0.3	1.6	83.65	1.36	42	56.38
8523	510478		5553377	1.9	-2	-2.0	11	2.59	19	7069	10	4.68	-0.6	-0.6	96.87	0.99	30	37.4
8524	511939		5553593	1.9	-2	24.1	30	6.18	26	10450	25	4.67	6.9	3.8	274.92	3.15	48	53.97
8526	511564		5552206	12	-11	5.4	95	10.78	134	177033	43	6.97	10.0	5.9	2233.01	4.19	115	47.91
8527	510420		5550738	3.4	-2	-2.0	19	4.81	22	8088	16							

Site #	Easting	North	As	Au	Au	Cu	Co	Cr	Fe	Ni	Pb	Pd	Pt	REEs*	U	Zn	LOI
	NAD83	Method	INAA	INAA	FA	ICP-OES	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-MS	FA	FA		ICP-MS	ICP-OES	Grav.
	UTM	Units	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	%
	Zone 15	Detection limit	0.5	2	varies*	5	0.05	4	5	5	0.05	varies*	varies*		0.05	2	0.01
8539	517527		5552198	3.4	-2	-2.0	30	7.51	26	13775	24	3.62	-0.6	-0.6	204.29	1.60	71 51.63
8541	517326		5553753	1.1	-2	-1.0	17	3.46	14	5211	12	2.8	-0.3	0.7	91.68	1.12	39 35.2
8542	518308		5552112	5.4	-2	3.4	11	4.1	17	10607	11	5.18	1.4	ND	77.08	1.76	58 35.68
8543	520040		5551550	2.1	-2	3.9	12	3.53	13	6616	15	2.54	1.2	ND	69.52	0.52	48 46.77
8544	521340		5551520	2.7	-2	5.7	39	8.42	39	20543	31	6.15	1.7	0.7	144.84	2.21	75 37.61
8545	522401		5552277	1.7	11	4.8	25	5.71	31	32564	24	4.22	1.8	0.6	123.69	2.13	78 22.63
8546	521860		5553602	1.8	-2	4.3	29	12.62	39	27194	28	7.59	1.3	0.5	215.07	4.19	80 34.51
8547	523011		5553847	2.4	-2	-3.0	52	8.62	26	10048	29	3	0.7	0.6	150.29	3.97	91 63.73
8548	523574		5554070	0.8	-2	5.1	8	4.44	13	7180	10	1.69	1.3	0.5	82.28	1.51	32 8.71
8549	524311		5553020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS NS
8551	524612		5553831	1.8	-2	4.2	25	5.32	16	11459	16	2.98	1.1	ND	104.37	0.86	108 61
8552	527173		5551438	0.7	7	ND	11	5.4	23	13622	16	3.02	ND	ND	105.03	0.87	41 11.11
8553	524996		5551927	2.3	25	11.7	27	6.8	20	8374	22	2.86	1.2	ND	159.74	2.64	77 52.58
8554	524211		5551150	6.9	6	INF	58	3.46	30	12821	36	2.88	INF	INF	98.23	8.88	60 54.44
8555	522913		5550005	1.9	4	7.0	20	7.57	23	15370	22	3.26	1.0	ND	154.97	0.80	75 36.12
8556	522406		5550944	2.6	10	8.0	24	8.64	23	11648	25	4.39	1.0	0.6	162.97	1.11	64 48.28
8557	521264		5550381	1.2	5	4.6	32	6.18	23	9298	21	3.83	1.0	0.7	156.94	2.16	74 49.92
8558	521407		5549401	3.6	5	1.0	43	6.78	23	9784	28	4.46	0.6	0.4	242.42	3.16	75 48.43
8559	520882		5548851	2.1	9	2.0	30	6.37	39	20326	25	5.12	0.4	0.6	178.46	1.38	101 29.79
8561	520133		5549051	2.1	-2	-2.0	13	2.57	12	4722	11	4.27	0.3	0.3	65.04	0.58	44 71.58
8562	519503		5549266	1.4	-2	-1.0	13	1.43	16	2796	10	3.95	0.3	0.2	63.70	0.59	23 53.71
8563	520310		5550657	2.3	5	-3.0	25	3.33	15	8513	12	2.94	0.6	0.5	103.76	1.78	68 66.63
8564	517188		5549016	2.1	-2	4.9	10	1.55	15	3185	8	8.22	1.1	ND	54.65	0.50	40 44.69
8566	515430		5549844	1.6	5	4.1	6	2.96	7	8261	9	1.21	ND	ND	25.11	0.19	51 52.21
8567	513693		5550359	2.7	-2	3.5	36	12.24	28	31214	20	6.84	1.7	0.6	290.08	2.42	76 45.27
8568	512801		5549938	2.2	-2	2.2	27	5.37	23	14257	17	5.34	1.0	0.5	232.87	2.12	56 50.13
8569	511959		5548434	1.8	-2	2.2	34	11.03	29	18897	20	6.26	1.2	0.6	349.23	2.18	83 41.91
8571	511897		5547389	2	9	3.8	23	4.65	18	7727	22	5.03	1.7	ND	120.27	1.36	61 37.92
8572	510819		5547892	0.9	-2	5.4	23	15.17	18	17974	18	2.72	2.0	0.6	168.60	1.41	60 17.24
8573	509163		5548740	1.9	3	2.6	13	1.73	13	2987	12	2.33	1.0	0.8	46.34	0.56	43 54.24
8574	505852		5545190	6.9	-2	3.2	15	2.56	16	10304	10	2.8	2.1	0.8	78.98	1.95	44 36.17
8575	505547		5544343	3.9	-2	-1.0	24	5.11	28	12983	18	6.4	0.8	0.4	130.69	2.23	75 49.37
8576	505007		5544983	3.4	14	5.3	24	4.54	15	7390	12	2.75	1.6	ND	131.00	2.16	44 38.65
8577	503026		5546683	2.4	-2	3.8	28	9.36	43	28726	32	6.03	1.4	3.2	190.58	2.87	77 16.73
8578	502618		5547504	2.3	-2	4.1	35	8.77	33	24538	27	5.63	1.2	0.9	184.31	3.06	96 30.25
8579	500869		5547082	2.9	-2	4.3	35	12.25	58	34470	44	8.47	1.8	0.9	179.37	3.05	88 12.22
8581	500635		5548605	3.1	6	-1.0	36	8.64	33	19949	27	5.32	0.2	0.2	363.83	4.79	82 46.13
8582	499673		5549461	3.1	-2	6.6	26	6.87	33	17428	28	6.79	1.3	0.6	140.96	2.92	62 34.81
8583	498953		5549914	1.6	6	3.7	30	2.7	13	8766	14	2.8	1.1	ND	143.28	1.55	81 69.28
8584	498052		5548311	1.4	-2	4.4	24	8.74	36	22036	26	5.77	1.4	0.7	215.77	3.81	70 18.89
8585	497308		5548222	2.6	11	3.7	24	6.87	23	12209	22	4.34	1.2	0.6	198.02	3.39	67 49.89
8586	495528		5548589	2.6	-2	4.4	12	4.56	27	13136	17	3.4	1.4	0.7	105.36	2.70	41 20.34
8588	493326		5551162	1.6	-2	4.1	22	10.67	50	30458	38	6.56	1.4	0.9	157.40	1.60	86 12.01
8589	493481		5552493	1.7	6	2.0	24	9.1	36	22666	30	5.22	1.1	0.8	139.63	1.89	63 11.65
8591	490553		5551928	1.7	15	2.3	30	10.89	55	31221	40	7.39	1.2	0.6	135.56	1.15	91 17.28
8592	481182		5562957	2.8	-2	2.1	32	7.95	45	25648	36	7.01	1.1	0.7	153.78	4.59	77 17.28
8593	481060		5561372	2.3	-2	-1.0	34	9.24	49	28222	39	7.71	0.6	0.7	160.96	4.92	84 18.74
8594	481151		5556134	2.5	-2	2.5	35	12.46	46	29008	37	7.19	1.4	0.6	154.74	2.66	103 26.19
8595	480835		5554789	1	-2	2.4	26	8.83	40	19742	28	6.16	ND	ND	138.07	1.29	77 30.23
8596	484429		5551825	2.4	6	2.0	41	9.84	49	34684	34	4.76	1.6	0.6	317.90	1.77	82 47.22
8597	486451		5551480	3.2	-2	3.6	49	17.97	46	24452	35	6.88	1.4	0.6	177.57	3.00	92 45.56
8598	488081		5550966	1.6	-2	2.2	23	14.65	56	34837	41	7.51	0.9	0.7	159.00	1.51	98 11.92
8599	490936		5549846	1.7	-2	1.9	19	7.44	34	19010	26	5.05	ND	0.5	147.12	2.06	55 13.15
8601	491159		5549640	1.1	-2	1.9	12	6.1	27	16546	19	4.19	1.0	ND	130.16	1.48	46 7.78
8602	492000		5550531	1.7	-2	2.2	19	9.11	38	23350	28	5.17	0.9	0.6	168.30	2.02	64 9.25
8603	492399		5550310	2.2	-2	2.7	38	7.18	30	19884	27	4.75	0.9	ND	172.10	2.30	75 47.63
8604	496818		5546594	1.5	-2	-2.0	25	7.03	18	10966	18	5.54	0.2	0.4	335.50	17.02	70 55.66
8605	497900		5546819	1.7	7	3.4	34	10.46	42	27036	31	7.86	1.4	0.6	276.23	4.41	94 29.3
8606	497852		5545290	2.1	-2	2.0	26	11.15	51	31034	35	7.54	1.0	0.6	181.61	2.67	92 16.99
8607	497991		5543924	1.8	-2	-1.0	18	3.08	14	5802	15	4.13	0.1	0.3	86.72	2.27	52 50.09
8608	498281		5543106	2	-4	4.7	43	10.72	47	30283	35	8.16	1.2	0.6	428.89	4.78	95 29.29
8611	499498		5545082	1.9	7	3.3	37	10.46	53	31495	40	8.45	1.0	0.7	242.15	4.88	86 19.93
8612	498545		5546574	4.1	-2	1.6	52	8.75	34	25680	30	5.26	1.0	0.9	173.32	12.82	64 26.5
8613	498389		5547150	1.8	-2	1.0	25	4.98	21	13096	18	4.21	ND	ND	181.47	2.98	59 59.35
8614	499051		5547406	1.6	-2	1.3	30	8.75	41	28196	29	7.18	ND	ND	292.73	5.39	86 26.73
8615	500400		5545464	2.4	-2	2.7	28	8.47	43	26272	33	6.6	ND	0.7	195.06	3.74	68 10.67
8616	500418		5544707	2.9	7	-1.0	39	5.7	29	27855	24	6.84	0.4	0.7	376.28	6.42	90 49.96
8618	503659		5543036	3.1	-2	1.5	33	8.93	46	26293	32	6.93	1.0	0.7	201.55	2.78	82 23.92
8619	503404		5541900	3.4	-2	-3.0	30	7.92	34	28121	24	4.48	0.6	0.4	188.70	2.26	68 42.95
8621	504740		5542043	1.7	-2	-2.0	21	3.92	33	5403	21	4.75	-0.2	-0.2	63.38	0.44	128 61.92
8622	504936		5542330	1.7	-2	INF	28	6.06	46	12510	30	6.72	INF	INF	88.28	0.58	102 53.9

Site #	Easting NAD83 UTM Zone 15	Northing Method Units Detection limit	As INAA ppm 0.5	Au INAA ppb 2	Au FA ppb varies*	Cu ICP-OES ppm 5	Co ICP-MS ppm 0.05	Cr ICP-OES ppm 4	Fe ICP-OES ppm 5	Ni ICP-OES ppm 5	Pb ICP-MS ppm 0.05	Pd FA ppb varies*	Pt FA ppb varies*	REEs*	U ICP-MS ppm 0.05	Zn ICP-OES ppm 2	LOI Grav. % 0.01
8623	511151	5543087 2.9	-2	1.6		21	5.05	22	10431	22	3.77	ND	ND	125.72	3.39	56	38.51
8624	511777	5543687 2.2	-2	1.9		26	10.16	41	24881	31	5.4	ND	ND	173.84	2.99	98	27.89
8626	513688	5541794 1.9	-2	1.8		24	10.91	49	31126	35	6.63	ND	0.9	170.14	1.85	83	11.59
8627	515289	5542897 2.2	7	1.6		21	10.25	42	27039	29	6.98	ND	0.5	161.59	1.78	72	11.98
8628	517547	5543635 1.9	-2	1.5		34	9.34	39	19550	27	5.2	ND	ND	332.14	4.30	87	36.7
8629	517198	5542698 3.3	-2	2.3		32	5.23	23	8901	17	3.15	1.2	ND	244.45	2.48	83	54.24
8631	517634	5542020 2.5	-2	2.3		29	4.53	15	11008	14	3.71	1.0	ND	164.75	1.26	93	54.06
8632	518739	5541489 1.7	12	1.4		22	8.29	34	19552	27	5.75	ND	ND	188.21	1.60	66	23.7
8633	518032	5541341 2.2	-2	1.5		21	4.98	21	11179	17	3.18	0.9	ND	188.63	1.58	62	43.07
8634	518158	5539684 1.4	-2	2.3		30	3.02	15	9548	14	3.4	ND	ND	142.71	1.35	68	55.63
8635	514669	5539058 1.2	-2	1.3		14	7.85	34	19187	25	4.78	ND	0.6	98.39	0.76	74	16.25
8636	514715	5539888 1.9	-2	3.9		20	12.8	51	30001	37	4.7	1.1	0.7	134.86	0.70	96	13.96
8637	513811	5539261 2.4	7	1.7		29	11.68	37	26788	32	5.41	ND	0.5	188.25	0.99	98	42.06
8638	513249	5539447 NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8639	512014	5538800 2	-2	1.6		27	12.1	48	27691	36	5.29	ND	0.5	214.71	1.77	95	31.18
8641	510864	5540427 1.9	-2	2.5		30	12.83	60	35895	43	5.79	ND	0.7	201.42	1.53	99	15.1
8642	512111	5541864 3.1	-2	-1.0		21	4.96	20	8393	22	7.06	0.4	0.4	117.76	0.95	64	63.06
8646	501185	5542074 2.1	-2	1.6		21	9.51	45	27385	30	4.39	ND	0.7	133.31	1.57	66	10.63
8647	500337	5542416 2	-2	-2.0		27	6.24	33	16519	23	3.02	0.4	0.4	190.73	1.82	63	45.44
8648	499771	5542278 INF	INF	-2.0		32	7.59	28	16085	22	3.08	0.4	0.6	INF	2.20	72	62.81
8649	498804	5542048 2.1	-2	1.6		18	5.05	17	10619	16	4.35	ND	ND	158.09	2.16	71	43.89
8651	499292	5540720 2.3	-2	2.4		28	12.53	53	36380	38	6.03	1.1	0.5	244.21	2.35	98	17.72
8652	498256	5539917 2.7	-2	1.7		31	11.92	40	18454	34	4.89	ND	ND	318.55	3.82	77	32.67
8653	498103	5539013 2	-2	3.0		34	10.59	48	26471	40	4.98	1.0	ND	176.71	2.18	96	32.25
8654	496644	5540035 2.1	-2	2.4		25	12.69	49	30574	36	4.86	1.1	0.6	285.63	3.60	95	17.27
8655	495591	5540142 2.8	19	3.2		18	3.47	11	9452	12	2.07	0.9	ND	188.98	8.25	91	63.1
8656	494828	5539323 2.4	8	1.9		25	9	39	28536	28	4.96	1.1	0.6	230.36	3.51	80	20.51
8657	493970	5540476 2.9	-2	2.6		23	7.52	31	34638	22	3.12	1.2	0.6	270.02	5.54	74	29.16
8658	492895	5542060 2.3	-2	1.8		17	7.65	25	28830	23	3	1.0	ND	185.82	3.25	81	38.01
8659	493574	5542801 1.7	-2	-3.0		23	4.79	21	16042	17	2.79	0.4	-0.3	178.62	2.83	68	58.86
8661	494273	5541953 3.1	-2	-2.0		17	6.1	29	32137	22	8.74	-0.2	-0.2	196.66	5.16	75	38.09
8662	495145	5542147 2.1	5	4.3		30	6.82	26	18670	19	7.7	1.1	ND	289.06	6.43	102	55.59
8663	494644	5543025 2.7	-2	3.2		23	8.14	32	30008	23	5.88	1.0	ND	262.59	5.51	76	23.02
8664	495386	5542970 2.3	6	3.3		24	6.62	22	24074	20	4.91	1.1	ND	227.55	8.29	70	37.07
8665	496259	5542523 1	-2	2.5		23	6.87	28	20734	23	6.25	ND	0.5	341.30	7.20	64	31.12
8666	497277	5542644 2.5	-2	-3.0		32	6.6	29	18882	21	4.59	-0.3	0.5	350.47	6.12	83	58.74
8667	495932	5543645 1.7	-2	3.7		20	6.72	25	16871	19	5.93	ND	0.6	253.85	6.17	51	25.87
8668	495195	5543647 2.5	11	-1.0		37	5.82	20	9074	19	4.37	0.3	0.2	434.84	17.91	77	50.69
8669	494983	5544627 2.2	6	2.8		18	7.13	34	26408	24	5.06	ND	0.6	177.65	4.74	63	14.96
8671	496414	5545990 1.5	5	2.8		29	3.95	23	12748	17	5.71	ND	ND	243.36	4.48	66	47.66
8672	493828	5546663 2.4	-2	3.1		29	2.7	21	6524	15	8.76	0.9	ND	99.96	1.86	89	52.9
8673	489636	5551765 2.2	-2	2.8		25	2.07	18	4772	14	9.06	ND	ND	151.74	1.92	29	59.13
8674	487315	5549292 NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8675	486080	5550740 1.8	-2	-2.0		42	8.91	29	12557	32	3.89	0.5	-0.2	125.07	1.87	66	56.11
8677	483871	5550945 NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8678	483536	5551686 1.9	-2	2.8		68	10.55	60	21849	58	6.01	1.7	0.7	174.10	3.13	90	49.81
8679	481826	5570444 2.7	-2	3.0		27	7.13	38	21150	34	6.16	1.1	0.5	102.21	4.61	68	34.75
8681	481531	5568837 1.7	-2	2.1		20	7.23	36	21288	28	5.49	1.1	0.5	118.22	2.51	55	7.7
8682	479578	5567901 2.1	-2	-3.0		35	8.8	42	16615	39	6.05	0.4	0.6	133.11	17.45	85	53.36
8683	480017	5567690 2.5	-2	INF		45	7.86	45	16995	44	4.79	INF	INF	92.84	10.28	82	62.04
8684	480227	5566832 1.6	-2	3.8		31	12.05	56	29267	43	7.92	1.2	0.7	148.00	8.62	86	19.94
8685	478164	5567005 2.6	-2	4.2		33	16.89	95	32898	67	6.17	1.4	0.7	153.56	16.54	125	32.61
8686	478292	5565253 1.9	-2	7.5		29	10.81	41	19956	29	5.86	1.0	ND	135.01	15.15	83	40.38
8687	479475	5564398 1.7	-2	3.0		25	8.68	46	25531	35	6.37	1.2	0.6	143.89	6.13	72	11.4
8688	477280	5564129 NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8689	478074	5563807 1.5	-2	2.9		33	11	59	31754	45	8.39	1.2	0.7	160.99	8.43	94	16.04
8691	478610	5563454 2.3	-2	3.1		31	11.3	54	29405	41	8.36	1.2	0.8	161.75	7.76	87	14.11
8692	479161	5563040 2.2	-2	3.5		39	8.5	44	22365	39	7.62	0.9	0.6	134.04	9.02	75	25.1
8693	477533	5562104 1.6	-2	-1.0		24	5.68	21	11933	19	5.38	0.2	0.3	164.76	3.25	63	61
8694	479921	5561272 2.3	-2	3.0		24	10.09	47	26958	37	6.85	1.1	0.8	165.21	1.96	76	10
8695	478922	5560139 2.4	-2	2.7		30	11.04	51	28789	41	7.27	1.3	0.8	170.23	2.73	88	13.69
8696	478892	5559042 2.3	-2	2.2		36	8.83	52	25380	40	7.59	1.0	0.7	147.00	2.53	85	17.5
8697	477342	5558467 2.5	-2	3.0		34	10.3	50	27578	39	7.24	1.5	0.9	161.65	3.29	87	13.15
8698	476969	5557161 1.6	-2	INF		34	11.19	44	26963	37	6.96	INF	INF	141.57	1.95	102	30.43
8699	479571	5557950 5.1	-2	INF		34	21.75	51	57513	47	11	INF	INF	215.85	3.69	102	10.5
8701	478769	5556029 2.1	-2	2.5		48	5.05	34	16372	52	4.87	ND	ND	119.11	2.30	67	45.44
8702	476484	5554833 2.8	-2	6.5		33	9.48	50	27940	39	7.1	1.1	1.0	147.49	2.97	85	15.48
8703	478876	5554578 NS	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8704	480170	5555825 2.4	-2	3.5		50	7.59	40	22966	34	6.46	1.0	0.6	229.34	8.98	101	43.93
8705	480189	5554543 2	-2	2.8		32	6.2	22	17710	18	3.87	ND	ND	130.61	0.94	95	59.26
8706	478857	5553161 1.4	-2	2.8		16	4.14	21	9685	18	4.06	ND	0.6	97.15	1.36	27	24.06

Site #	Easting NAD83 UTM Zone 15	Northing Method Units Detection limit	As	Au	Au	Cu	Co	Cr	Fe	Ni	Pb	Pd	Pt	REEs*	U	Zn	LOI	
			INAA	INAA	FA	ICP-OES	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-MS	FA	FA					
			ppm 0.5	ppb 2	ppb varies*	ppm 5	ppm 0.05	ppm 4	ppm 5	ppm 5	ppm 0.05	ppb varies*	ppb varies*	ppm	ppm 0.05	ppm 2	% 0.01	
8707	481626	5551432	2.6	-2	3.1	35	18.17	53	28380	64	4.81	1.1	0.7	213.19	2.33	86	14.22	
8708	483283	5550752	1.2	-2	3.7	90	4.89	30	8373	33	3.86	1.4	0.6	97.41	1.60	72	53.08	
8709	483649	5549232	1.2	-2	2.4	23	13.99	54	31713	42	7.23	1.0	0.6	144.84	1.37	89	11.94	
8711	484734	5547377	2	-2	3.2	24	13.54	41	25878	33	7.3	1.0	ND	181.47	1.50	94	28.08	
8712	485617	5547164	1.7	-2	-3.0	37	7.75	34	7514	29	5.48	0.6	-0.3	369.74	3.41	83	56.2	
8715	489633	5546263	2.2	-2	-2.0	27	5.54	21	9309	23	3.63	-0.2	-0.2	88.55	1.83	106	55.06	
8716	488392	5545265	2	-2	3.7	29	9.58	43	21180	36	7.02	ND	0.5	263.93	3.10	86	35.29	
8717	489677	5545144	1.7	-2	3.3	17	6.86	29	18884	21	5.91	ND	ND	160.89	2.09	68	28.09	
8718	489036	5544473	1.9	-2	3.7	22	6.56	30	18762	25	5.78	0.9	ND	146.36	2.47	62	28.1	
8719	489256	5543758	3	-2	1.6	24	13.35	41	40884	31	7.31	ND	0.6	265.65	4.12	100	27.72	
8721	489689	5542924	3.5	-2	1.9	19	10.71	37	34712	27	6.74	ND	ND	239.09	3.83	90	27.07	
8722	490281	5543114	2.3	-2	-1.0	25	8.98	24	26123	24	5.13	0.2	0.6	251.41	6.76	88	48.83	
8723	490888	5543449	1.8	-2	1.3	21	3.24	18	11696	17	6.33	ND	ND	138.17	2.78	59	42.27	
8724	491971	5544412	1.5	4	1.1	14	1.36	8	9353	8	1.63	ND	ND	45.24	0.92	58	71.6	
8725	492085	5544863	1.6	-2	1.5	32	1.99	11	12524	11	2.79	ND	ND	158.19	3.19	106	64.7	
8726	492064	5541542	2	-2	2.1	24	8.1	27	18696	22	7.08	ND	ND	291.20	6.13	77	38.39	
8727	491240	5541298	2.7	-2	1.5	26	8.39	33	40722	23	6.94	0.9	ND	225.90	3.93	96	35.07	
8728	491645	5539757	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8729	490638	5539606	3.4	-2	1.9	29	17.18	41	28750	32	7.87	1.2	0.7	239.89	2.98	90	18.52	
8731	489884	5539367	3.2	-2	2.4	39	10.95	45	29624	35	9.97	1.2	0.6	269.86	5.30	100	29.25	
8732	490406	5540814	3.9	-2	1.5	27	8.65	36	26225	30	11.83	ND	0.5	252.18	4.23	93	32.63	
8733	486901	5540251	1.6	-2	2.5	35	6.77	22	7422	25	4.84	1.1	ND	130.58	2.14	103	68.48	
8734	487662	5540381	2.4	-2	1.0	37	7.57	29	17448	37	5.95	0.4	0.3	302.76	7.49	89	62.63	
8735	488991	5541525	2.8	-2	-1.0	34	10.25	33	18680	30	6.62	0.4	0.7	277.59	7.64	88	43.14	
8736	487243	5541435	1.9	-2	3.2	34	8.4	34	16168	27	6.85	1.0	0.5	271.31	8.15	80	42.57	
8737	486547	5541814	1.5	-2	-5.0	37	6.11	23	10895	30	4.3	-0.5	-0.5	177.63	3.34	60	62.03	
8738	487349	5542662	2.7	-2	3.0	35	10.23	44	27696	36	10.11	1.2	0.6	244.65	3.03	88	29.93	
8739	488288	5543086	3	-2	2.6	47	8.14	34	20655	41	5.93	1.4	0.8	306.64	3.92	84	49.48	
8741	487382	5544202	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8742	486424	5543458	2.9	-2	3.1	35	8.72	32	20585	41	9.45	1.1	ND	263.37	2.54	89	49.23	
8743	485493	5542907	3.4	-2	2.3	34	11.42	49	62104	38	9.69	1.0	0.6	290.25	3.51	105	22.76	
8744	485046	5542807	2.7	-2	4.3	31	4.33	31	6300	24	13.2	1.0	ND	219.40	2.08	75	51.28	
8745	485148	5544115	2	-2	1.5	37	9.41	41	16993	34	5.64	ND	ND	231.09	3.30	75	41.47	
8746	485738	5543939	2.9	-2	2.6	35	17.3	52	58405	41	8.64	ND	0.5	291.07	3.88	118	19.64	
8747	486532	5544664	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8748	484493	5544736	2	-2	-2.0	34	12.84	44	46160	35	5.07	0.3	0.2	274.15	3.31	91	46.91	
8749	484701	5545544	2.3	-2	1.2	27	9.55	41	21047	29	4.84	ND	ND	217.56	2.34	72	26.44	
8751	483694	5546187	1.7	-2	2.5	57	2.44	12	15241	16	3.44	ND	ND	69.74	1.26	99	63.37	
8752	482333	5548177	2	-2	3.3	9	1.54	17	4801	11	7.3	ND	ND	65.49	0.57	39	27.39	
8754	480641	5550947	1.2	-2	2.4	32	3.94	30	9824	32	5.67	0.9	ND	82.16	1.35	52	44.53	
8755	476317	5552733	1.6	-2	2.6	32	13.08	53	28000	43	6.48	1.2	0.6	153.64	1.96	91	17.47	
8756	476430	5556634	2.3	-2	2.5	45	14.33	44	38172	40	9.37	1.3	ND	152.29	1.69	94	39.06	
8757	475538	5557178	2.3	-2	2.6	45	5.18	30	16327	23	8.89	1.1	ND	105.30	1.82	75	44.28	
8758	476408	5559484	4	-2	4.4	42	13.22	61	38386	46	13.45	1.4	0.6	178.31	4.63	109	19.19	
8759	476016	5561249	2.7	-2	3.0	38	18.05	40	31266	30	8	1.6	ND	293.02	5.79	77	33.94	
8761	475375	5561145	1.1	-2	2.5	27	6.7	37	17971	28	6.08	1.2	ND	119.29	3.80	70	25.33	
8762	476772	5562922	2.4	-2	4.1	20	6.92	25	11651	25	5.2	1.2	ND	86.65	4.55	71	37.34	
8763	476113	5564237	3.4	-2	3.6	40	12.1	54	29585	34	9.26	1.4	0.5	243.98	24.12	103	32.17	
8764	476658	5566012	2.2	-2	3.3	43	17.26	61	28068	39	7.56	1.5	0.6	211.83	15.95	101	45.81	
8765	476216	5566795	3.2	-2	3.5	46	11.27	64	16036	58	4.83	1.5	0.6	211.35	20.82	88	42.68	
8766	476451	5567971	2.9	-2	3.2	30	9.78	46	23350	30	6.04	1.3	0.5	156.64	11.36	74	23.31	
8767	477040	5568873	3.1	-2	2.2	31	12	45	25778	35	7.44	ND	0.7	177.95	5.27	92	31.2	
8768	478514	5567764	2.8	-2	2.2	34	11.72	48	22776	41	6.81	ND	0.7	168.96	16.34	94	30.22	
8769	478208	5568584	2.2	-2	1.0	32	8.6	44	20570	32	7.85	ND	ND	161.75	13.51	82	29.07	
8771	478787	5569078	2.7	-2	2.2	32	8.26	41	19029	37	8.03	0.9	0.7	130.80	17.80	70	35.94	
8772	478383	5570020	3.8	-2	2.7	41	25.83	42	49953	33	8.11	ND	0.6	265.82	29.48	96	38.97	
8773	478984	5570423	2.8	-2	-2.0	24	7.16	20	21692	21	3.49	-0.2	0.3	118.62	25.95	91	58.09	
8774	480168	5573390	3.3	-2	2.2	25	8.51	46	24780	31	8.39	ND	0.7	143.43	11.76	82	24	
8775	479541	5572685	2.6	-2	1.9	25	6.93	36	17474	30	4.42	ND	0.5	118.71	10.35	64	33.3	
8776	480074	5572014	2.5	-2	4.2	30	10.3	53	30490	38	8.62	1.1	0.7	188.03	12.83	94	20	
8777	478804	5571199	2.3	-2	3.5	25	8.79	50	26654	35	7.3	1.0	0.7	163.34	13.12	83	17.65	
8778	477772	5570876	3.4	-2	2.9	35	8.12	44	24908	33	8.39	1.6	0.5	212.01	18.43	108	38	
8779	475394	5569038	3.6	-2	3.5	25	7.64	29	24784	23	4.05	1.4	ND	144.27	15.38	76	44.24	
8781	474400	5567149	2.7	-2	-2.0	20	2.96	22	9139	19	3.25	0.3	0.4	75.05	8.8			

Site #	Easting NAD83 UTM Zone 15	Northing Method Units Detection limit→	Aa	Au	Au	Cu	Co	Cr	Fe	Ni	Pb	Pd	Pt	REEs*	U	Zn	LOI	
			INAA	INAA	FA	ICP-OES	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-OES	ICP-MS	FA	FA		ICP-MS	ICP-OES	
			ppm 0.5	ppb 2	ppb varies*	ppm 5	ppm 0.05	ppm 4	ppm 5	ppm 5	ppm 5	ppm 0.05	ppb varies*	ppb varies*	ppm	ppm 0.05	ppm 2	% 0.01
8789	474122	5560193	3.2	-2	3.0	39	9.47	60	30294	46	8.71	1.4	0.6	194.64	4.59	99	19.62	
8791	474114	5559314	2.2	-2	2.9	50	7.94	48	23842	41	6.66	1.4	1.0	135.51	4.26	69	24.23	
8792	473286	5554247	2.3	-2	2.2	35	9.69	52	27801	42	8.16	1.4	0.6	146.50	1.88	92	23.96	
8793	475447	5552053	3	-2	3.1	40	14.41	53	37451	42	8.45	1.3	ND	192.13	1.74	98	27.62	
8794	476125	5551594	2.7	-2	2.7	34	11.43	51	27858	43	6.16	1.4	0.6	173.93	2.24	91	19.41	
8795	477544	5550806	3.1	-2	3.7	42	13.12	56	33295	42	7.53	1.5	0.5	210.97	2.25	93	31.01	
8796	478494	5550626	1.6	-2	2.5	17	2.82	23	8747	21	3.85	ND	ND	77.46	0.96	39	30.91	
8797	479748	5549202	2.9	-2	3.0	42	19.15	33	43750	29	7.62	1.1	ND	191.27	1.74	65	57.1	
8798	479917	5548921	2.5	-2	4.0	47	41.49	41	34805	39	9.1	1.1	ND	231.01	2.14	66	54.1	
8799	480256	5549628	1.5	-2	2.1	33	4.85	21	7625	22	3.82	0.9	ND	114.16	1.32	47	50.42	
8801	480891	5550015	2.5	-2	2.3	57	12.06	41	21748	38	6.13	1.1	ND	149.32	1.98	89	59.44	
8802	480682	5548676	1.8	-2	3.3	52	8.61	39	17154	38	6.33	1.3	0.5	164.85	1.94	67	58.67	
8804	477257	5546719	2.2	-2	1.7	40	9.87	46	25137	51	7.32	ND	ND	119.19	1.38	93	31.64	
8805	476848	5546397	2.1	-2	1.7	40	17.67	77	45070	57	11.13	1.0	ND	178.71	1.89	140	16.02	
8806	476781	5545529	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8807	478488	5542391	3.2	-2	2.5	46	9.37	53	35301	46	8.4	1.2	ND	166.75	1.67	105	29	
8809	479981	5542219	1.1	-2	2.4	19	8.63	35	19893	27	5.7	ND	ND	116.17	1.73	67	17.47	
8811	482303	5544915	1.5	-2	1.3	18	3.79	12	8659	12	2.6	ND	ND	68.73	1.17	44	45.61	
8813	482492	5542234	1.1	-2	1.8	20	10.02	45	27534	31	6.36	ND	ND	145.58	1.10	75	12.82	
8814	482946	5541360	1.1	-2	1.0	32	10.12	47	29549	35	7.64	ND	ND	142.86	1.20	77	16.18	
8815	484374	5540596	-0.5	-2	1.8	29	12.53	52	30421	42	7.32	ND	0.5	220.02	2.63	98	22.35	
8816	485252	5539179	2.3	-2	1.1	35	8.04	35	25193	28	8.74	ND	ND	276.35	3.38	87	39.67	
8817	483249	5540400	2.4	-2	2.0	25	14.15	53	33855	43	8.19	ND	ND	187.33	2.32	109	21.67	
8818	482349	5540522	1.8	-2	1.4	26	8.78	37	20530	29	5.76	ND	ND	131.45	1.22	76	28.05	
8819	481677	5539793	1.5	-2	1.3	25	13.24	53	32593	37	8.01	ND	ND	154.48	2.24	95	15.8	
8821	481304	5541011	2.2	-2	1.5	93	2.55	17	14705	17	5	ND	ND	119.61	1.64	109	65.89	
8822	479519	5540161	1.3	-2	1.9	36	16.91	52	27665	43	8.17	0.9	ND	183.29	2.34	100	31.77	
8823	477902	5539607	2	-2	2.3	27	6.24	36	15775	24	8.68	ND	ND	150.30	3.66	38	38.94	
8824	475443	5539008	2.5	-2	1.8	37	7.74	38	28227	29	6.26	1.1	ND	193.45	4.13	78	44.63	
8827	476303	5549597	1.9	-2	1.9	56	11.69	44	20033	51	4.54	1.3	0.5	144.86	2.18	78	47.25	
8829	474907	5549562	4.1	-2	1.5	36	14.91	52	52997	45	7.88	1.0	ND	155.11	2.75	94	22.57	
8831	474130	5548641	1.9	-2	1.7	30	8.79	45	23308	37	5.88	ND	ND	140.73	2.88	74	20.15	
8832	473749	5549214	2	-2	2.0	39	10.79	52	27095	46	6.98	1.1	ND	140.97	3.22	88	24.81	
8833	474679	5550593	1.7	-2	2.2	34	12.38	60	33711	46	7.72	1.4	0.7	157.41	2.83	102	17.71	
8834	474237	5551289	2.1	-2	2.3	36	10.28	49	26625	43	6.78	1.1	0.6	129.60	2.64	82	27.78	
8835	474770	5552343	1.5	-2	2.3	18	4.46	31	11787	21	5.52	1.2	ND	90.78	0.79	62	24.65	
8836	471827	5553241	2.4	-2	3.0	32	15.37	54	34271	44	8.8	0.9	ND	139.76	1.59	103	25.46	
8837	472098	5556716	1.7	-2	2.4	51	8.27	31	31034	26	6.14	ND	ND	186.01	5.16	75	47.11	
8838	471878	5569385	3.5	-2	3.1	29	8.91	35	32766	28	5.81	ND	ND	151.52	8.04	94	31.48	
8839	470174	5568309	3.3	-2	3.6	31	10.42	37	28024	33	5.91	ND	ND	142.61	4.23	98	40.84	
8841	467924	5566715	2.7	-2	2.5	25	8.35	40	18599	37	4.98	ND	ND	139.66	5.06	77	31.44	
8842	466504	5566623	1.4	-2	3.7	27	12.84	44	23866	32	5.43	0.9	ND	168.56	2.42	107	24.56	
8843	465496	5566389	1.9	-2	3.8	33	12.47	42	26353	30	7.24	ND	ND	177.18	2.50	104	34.27	
8844	466489	5566022	3.3	-2	3.8	36	34.56	41	56962	37	7.42	ND	ND	279.06	3.04	125	42.42	
8845	466703	5565376	2.6	-2	3.0	25	8.93	42	21781	33	6.43	0.9	ND	122.96	4.21	81	25.04	
8846	464535	5564963	2.4	-2	-1.0	28	8.26	29	11160	28	4.47	0.2	0.3	81.72	2.11	99	58.37	
8847	466157	5564666	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
8848	465016	5564230	2.2	-2	3.4	20	8.53	41	24621	29	4.56	ND	0.5	138.30	5.78	76	15.14	
8849	466388	5562855	2.4	-2	2.6	33	13.81	61	29711	45	5.72	1.2	0.6	240.72	9.72	96	28.44	
8851	464657	5562790	2	-2	-2.0	29	6.33	43	12329	39	5.41	-0.2	0.3	191.84	15.20	62	37.65	
8852	465449	5562308	3.2	-2	3.4	39	8.06	57	20080	35	7.07	1.2	ND	192.55	19.43	78	35.26	
8853	466276	5561408	3.4	-2	3.2	39	16.27	43	32666	28	8.39	ND	ND	261.56	33.16	120	48.52	
8854	464931	5561118	2.1	-2	-1.0	31	9.2	53	19038	35	9.43	0.5	0.6	159.82	18.32	82	32.73	
8855	464546	5559617	4.5	-2	4.2	42	11.81	57	32481	48	10.58	1.2	0.6	215.77	53.12	102	30.14	
8856	465126	5558782	3.7	-2	-2.0	40	8.12	35	22952	37	6.27	0.8	1.2	153.05	12.46	134	57.05	
8857	466202	5558803	3.7	-2	3.8	37	12.5	57	32979	47	9.03	1.3	0.7	164.23	22.84	96	19.39	
8858	465285	5557937	3.2	-2	2.7	41	12.32	56	32662	47	8.83	1.2	0.7	162.24	24.76	95	20.76	
8859	467357	5557232	4.1	-2	2.7	38	10.67	51	29126	44	9.04	1.2	0.6	148.26	22.57	89	25.41	
8861	466707	5555280	3.2	-2	3.0	43	16.08	69	40969	54	10.76	1.6	0.9	192.09	4.18	120	14.44	
8862	465563	5554233	4.5	-2	3.1	44	9.63	35	19996	40	5.26	1.2	ND	119.59	5.87	120	46.99	
8863	464644	5552619	3.8	-2	3.3	52	16.58	73	43787	61	12.33	1.5	0.6	208.54	4.75	128	19.68	
8864	466960	5552106	2.4	-2	4.6	43	15.46	70	38949	55	8.98	1.8	0.9	162.14	2.74	126	18.88	
8865	466475	5550582	1.6	-2	2.4	32	15.22	66	37376	49	9.04	1.0	0.7	167.96	2.57	102	9.18	
8866	465384	5550552	2.8	-2	2.9	36	7.26	34	17905	39	5.01	1.0	0.6	120.59	1.46	130	56.99	
8867	465335	5548959	3.9	-2	2.7	57												

Site #	Easting	Northing	As	Au	Au	Cu	Co	Cr	Fe	Ni	Pb	Pd	Pt	REEs*	U	Zn	LOI
	NAD83	Method→	INAA	INAA	FA	ICP-OES	ICP-MS	ICP-OES	ICP-OES	ICP-OES	ICP-MS	FA	FA				
	UTM	Units→	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppm	ppm	ppm	Grav. %
	Zone 15	Detection limit→	0.5	2	varies*	5	0.05	4	5	5	0.05	varies*	varies*		0.05	2	0.01
8876	464622		5539386	2.6	-2	3.3	54	17.71	79	45433	65	11.12	1.4	0.6	191.33	3.65	140 18.04
8877	466654		5539115	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8878	467701		5539619	4	-2	3.3	53	16.44	73	41000	66	9.27	1.4	0.7	191.43	3.82	126 23.78
8879	469339		5539848	2.5	-2	4.0	53	18.08	83	46553	68	10.41	1.4	0.7	191.04	3.84	155 19.63
8881	470631		5539018	1.8	-2	3.9	46	12.01	60	34834	52	8.36	1.0	ND	120.69	3.28	150 36.6
8884	469816		5544549	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8886	471798		5548493	2.1	-2	1.9	47	45.37	46	37933	59	4.96	ND	0.5	108.32	0.96	71 60.91
8887	472252		5549944	2.4	-2	2.5	32	14.7	48	24529	43	5.24	0.9	ND	156.31	1.72	74 16.48
8888	471620		5550805	1.9	-2	3.6	55	9.7	26	17948	31	4.49	1.2	0.6	112.52	1.24	100 51.76
8889	470682		5549099	2.4	-2	2.6	37	17.66	56	30190	55	5.67	1.1	0.7	174.66	1.84	91 16.32
8891	469286		5549473	1.6	-2	2.5	36	6.55	32	10093	29	5.07	ND	0.6	100.54	1.34	57 38.51
8892	469114		5550152	1.7	-2	-1.0	61	19.59	56	15953	49	4.99	0.8	0.8	121.20	1.87	88 55.6
8893	469767		5551668	2.9	-2	-1.0	39	13.49	54	24847	45	6.41	0.6	0.7	139.79	1.56	107 38.86
8894	468078		5553059	2.9	-2	2.1	36	14.3	68	38570	53	8.4	ND	ND	146.99	2.30	121 15.31
8895	470336		5557860	1.8	-2	2.9	27	6.86	32	16199	22	5.11	1.1	0.5	151.56	14.95	82 40.36
8896	471034		5558211	1.5	-2	-1.0	44	8.99	29	14360	25	4.39	0.5	0.6	188.16	27.87	73 54.4
8897	472995		5557200	1.9	-2	2.9	32	11.18	50	26602	36	8.16	1.1	0.8	158.00	10.30	79 21.46
8898	473241		5558905	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8899	472034		5558629	2.1	-2	2.4	37	12.77	56	30733	44	7.77	1.4	0.8	174.72	9.02	89 19.44
8901	472005		5559268	2.5	-2	INF	42	7	36	14860	31	5.72	INF	INF	135.23	9.45	77 62.93
8902	470953		5558902	1.9	-2	-5.0	33	7.07	37	15462	33	6.55	-0.5	-0.5	146.94	7.21	71 45.19
8904	469887		5559054	3.3	-2	3.0	44	8.98	48	31944	37	7.92	1.5	0.8	229.51	5.85	95 25.18
8905	470858		5559239	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8906	471289		5560284	3.1	-2	3.3	41	13.43	59	36472	45	8.91	1.3	0.7	196.81	10.98	101 15.6
8907	470153		5559692	1.3	-2	1.7	40	10.92	56	28260	42	7.92	ND	ND	169.37	7.77	89 15.78
8908	469330		5559548	2.2	-2	-1.0	26	6.24	35	17799	25	5.87	0.4	0.4	143.20	11.51	67 36.74
8909	468629		5560057	3	-2	-3.0	40	8.4	37	37807	33	5.44	0.7	0.4	198.17	16.45	88 51.78
8911	468214		5560255	2.3	-2	3.2	23	3.53	20	5912	14	5.18	1.1	0.6	81.48	3.96	101 68.08
8912	469347		5561103	1.9	-2	3.8	28	7.74	45	21067	32	6.32	1.7	0.7	144.20	11.28	80 20.29
8913	470992		5561464	6.1	-2	ND	44	15.69	53	41151	44	8.63	ND	ND	202.93	26.33	117 21.86
8914	471016		5562658	2.5	-2	ND	21	4.48	13	4611	14	5.41	ND	ND	95.89	16.80	33 52.99
8915	469667		5563045	2	-2	-1.0	28	5.44	33	13478	30	5.01	0.3	0.3	139.31	12.84	67 49.15
8916	468254		5562095	2.8	-2	-1.0	17	3.38	18	5303	17	5.37	0.4	0.5	51.67	24.77	33 61.27
8917	467247		5561556	0.9	-2	ND	25	7.26	37	21653	26	5.13	ND	ND	134.54	12.96	71 20.41
8918	467267		5562694	2	-2	ND	31	7.42	34	14943	23	4.64	ND	ND	186.17	8.33	71 39.29
8919	468147		5562706	3.7	-2	ND	31	8.95	43	38259	34	6.86	ND	ND	141.57	18.23	70 21.5
8921	468906		5563298	2.8	-2	ND	39	6.8	35	23428	25	6.28	2.0	2.0	162.17	31.99	129 51.8
8922	468830		5563719	1.4	-2	2.7	24	7.41	21	13502	22	3.25	1.0	0.6	65.77	5.58	91 54.9
8923	468454		5563889	1.9	-2	1.8	22	4.36	27	13985	22	3.8	1.0	0.6	80.53	10.02	53 56.57
8924	469030		5564839	3.4	-2	-1.0	18	4.51	25	9635	24	4.25	0.2	0.3	93.75	7.83	57 50.91
8925	467941		5564844	1.6	-2	2.2	22	8.82	43	21460	30	5.51	1.1	0.6	112.63	5.56	80 23.21
8926	468003		5565785	1.9	-2	3.1	18	8.74	37	21742	26	4.95	1.1	0.7	134.59	3.85	60 9.52
8927	469454		5565930	3	-2	2.7	27	8.88	39	21655	30	6.13	1.3	0.6	127.45	4.73	95 29.61
8928	470915		5566215	3.7	-2	-2.0	22	7.79	33	21391	28	5.01	0.2	0.4	124.69	8.71	87 42.44
8929	470642		5565281	2.5	-2	-1.0	20	4.96	19	6012	16	2.76	-0.1	0.2	71.77	8.62	46 65.58
8931	470346		5564484	2.8	-2	3.8	24	7.17	38	19009	29	4.72	1.9	0.9	131.92	6.95	57 16.16
8932	472995		5565122	2.7	-2	3.3	32	7.8	47	20739	34	6.03	1.8	0.9	136.57	9.28	72 24.16
8933	473403		5566251	2.7	-2	2.9	25	7.02	32	8384	28	4.41	1.5	0.7	63.68	2.85	97 50.25
8934	481939		5576957	3.9	-2	5.0	35	10	53	28557	41	10.48	1.8	0.7	147.68	8.71	94 21.81
8935	481163		5578884	3.5	-2	-1.0	30	10.14	54	28948	41	6.99	0.5	0.7	148.88	9.87	94 18.1
8936	478732		5579410	3.4	-2	-1.0	37	9.52	59	28439	44	8.13	0.5	0.5	148.04	11.44	89 21.92
8937	477616		5580822	1.9	-2	4.4	41	12.74	63	33209	48	7.9	2.0	0.9	152.54	3.85	106 21.91
8938	476122		5580055	2.7	-2	-1.0	38	8.96	36	20237	33	4.81	0.6	0.4	100.51	5.26	89 50.4
8939	475686		5580553	2.8	-2	3.9	31	9.07	39	20545	34	5.26	1.5	0.8	129.56	3.82	94 31.83
8941	475714		5578872	4	-2	4.9	37	10.04	56	29990	41	7.97	2.0	1.0	162.54	17.09	95 19.65
8942	474493		5575183	1.5	-2	3.5	20	8.57	32	15710	23	3.81	1.2	0.7	94.66	16.86	97 31.04
8943	473609		5574255	1.8	-2	3.7	21	10.2	34	18046	27	4.62	1.2	0.5	95.33	17.35	99 30.77
8944	473868		5577055	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8945	472005		5578137	2.6	-2	3.9	38	12.21	48	30382	39	9.65	1.6	0.8	248.89	13.26	106 28.88
8946	472706		5579578	3	-2	5.5	35	9.2	44	26299	34	9.53	1.8	0.9	152.71	4.72	89 32.36
8947	474296		5579659	5.5	-2	-2.0	45	15.95	61	35030	52	10.55	1.0	0.7	232.24	22.93	116 15.85
8948	473945		5580784	4.9	-2	4.3	34	10.3	52	29684	39	8.28	1.9	1.0	169.59	15.57	95 16.03
8949	472420		5581569	3.1	-2	-1.0	40	8.3	41	21039	34	5.7	0.7	0.5	120.36	3.45	77 39.39
8951	471669		5579866	2.7	-2	2.4	22	6.2	21	10676	21	3.9	1.3	0.6	166.66	7.78	71 50.14
8952	471050		5580994	2.7	-2	2.3	45	10.35	36	15850	34	4.86	1.6	0.6	185.03	4.97	82 45.94
8953	469928		5580306	2.3	-2	2.9	29	9.54	38	23457	32	6.05	1.3	0.7	229.14	10.98	86 32.98
8954	469763		5581855	4.4	-2	2.7	38	8.97	45	27190	39	8.68	1.7	0.7	200.63	8.23	87 25.49
8955	468068		5582509	5.3	-2	3.5	50	6.15	40	20371	55	6.39	1.8	0.8	116.13	4.08	75 34.87
8956	466800		5582634	2.6	-2	3.9	35	9.01	41	25098	35	7.14	2.0	0.8	170.91	5.83	81 24
8957	465946		5584007	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8958	465546		5582355	0.9	-2	1.6	6	1.13	13	2668	7	3.8	1.0	ND	55.35	0.63	25 31.06

Site #	Easting NAD83 UTM Zone 15	North Method Units Detection limit	As INAA ppm 0.5	Au INAA ppb 2	Au FA ppb varies*	Cu ICP-OES ppm 5	Co ICP-MS ppm 0.05	Cr ICP-OES ppm 4	Fe ICP-OES ppm 5	Ni ICP-OES ppm 5	Pb ICP-MS ppm 0.05	Pd FA ppb varies*	Pt FA ppb varies*	REEs*	U ICP-MS ppm 0.05	Zn ICP-OES ppm 2	LOI Grav. %
8959	467540	5580787 2.6	-2	6.7		36	10	48	27904	41	9.23	2.0	0.9	190.99	8.22	93	21.99
8961	468263	5579712 4.9	-2	2.7		33	9.59	48	30563	37	10.17	1.9	0.7	226.45	11.49	94	20.99
8962	466897	5579173 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8963	466066	5580084 3.6	-2	4.0		38	9	48	28488	41	8.52	2.1	0.9	208.22	9.71	80	25.08
8964	465161	5580044 3.2	-2	2.9		34	6.82	32	20275	32	5.59	1.7	0.6	273.60	9.60	74	43
8965	465319	5578225 2.5	-2	3.5		35	9.73	50	28423	40	8.89	1.8	0.8	173.13	8.91	92	20.14
8966	466321	5578345 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8967	468510	5578538 1.8	-2	-2.0		29	7.14	27	18586	25	5.35	0.3	0.3	220.39	13.80	80	58.53
8968	470019	5578154 2	-2	-1.0		24	5.17	19	21023	16	4.69	0.2	0.2	195.28	6.93	79	64.96
8969	470922	5576980 3	-2	3.3		33	9	51	26699	38	7.94	1.5	0.7	155.68	13.14	88	18.91
8971	469270	5575917 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8972	468602	5577025 2.6	-2	4.6		28	11.38	34	20294	22	10.58	1.2	ND	291.65	16.19	93	39.27
8973	467178	5577131 2.4	-2	2.8		33	12.69	35	22478	29	8.28	1.3	ND	266.44	15.88	99	41.98
8974	465900	5576968 3.1	-2	2.1		38	10.58	44	21641	33	10.28	1.1	ND	339.21	20.45	97	32.89
8975	464539	5576868 3.4	-2	1.3		19	6.33	15	7279	18	5.37	1.7	ND	145.34	10.49	61	45.76
8976	467057	5575228 4.2	-2	3.6		39	11.55	58	32470	47	9.82	1.3	0.9	186.05	6.27	103	17.61
8977	465662	5574051 3	-2	3.8		28	10.19	51	32424	39	8.66	ND	0.6	166.09	4.06	86	12.34
8978	467952	5573916 4.2	-2	2.0		43	11.38	55	35717	48	11.81	1.3	0.6	169.30	10.88	107	28.09
8979	470625	5574540 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8981	470980	5572381 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8982	467450	5573065 2.4	-2	-1.0		21	3.67	14	5229	22	3.38	0.3	0.2	52.32	3.49	59	61.13
8983	466738	5572979 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
8984	464829	5573069 2.4	-2	-2.0		23	4.13	19	14316	24	4.1	0.2	0.3	59.62	4.66	103	69.53
8986	464689	5567599 2.1	-2	-3.0		27	5.71	26	16151	18	4.14	0.6	-0.3	137.72	2.38	90	61.76
8987	466030	5567504 1	-2	2.9		29	6.35	30	18458	26	5.22	1.6	0.7	130.84	2.61	77	40.46
8988	466862	5568562 2.3	-2	2.3		28	10.51	50	28414	39	7.36	ND	ND	162.08	5.38	101	23.24
8989	468221	5568665 2.1	-2	-1.0		39	18.62	41	31889	32	8.25	0.4	0.6	307.97	6.31	112	35.62
8991	468293	5569522 2.3	-2	2.6		34	4.89	19	8686	17	4.4	1.2	0.6	160.43	2.65	152	67.55
8992	468956	5569445 1.8	-2	2.3		35	9.75	43	25812	32	7.47	0.9	ND	137.91	8.76	107	28.71
8993	468587	5570644 2.2	-2	4.1		29	8.51	49	26476	36	7.24	1.0	0.6	146.26	16.41	87	20.83
8994	469070	5570303 2.2	-2	2.6		19	7	33	19340	31	8.16	1.1	0.7	98.19	5.11	72	32.03
8995	470386	5570072 2.4	-2	12.8		19	5.49	31	15455	26	5.95	1.1	ND	93.11	4.41	59	39.76
8996	471192	5570188 3.9	-2	-3.0		21	4.81	31	17089	27	5.68	0.8	0.4	100.85	4.37	59	50.77
8997	471369	5567889 3.5	-2	-1.0		31	7.7	43	23036	32	6.82	0.4	0.5	133.43	7.22	84	34.84
8998	471288	5567058 3.5	-2	3.8		21	4.76	27	16150	22	5.51	1.2	0.7	115.40	8.36	70	48.85
8999	472750	5567103 4.9	-2	3.3		14	2.81	13	4471	17	3.06	1.1	0.6	36.65	6.64	61	51.54
9001	472635	5568214 3.2	-2	2.7		22	4.14	19	9800	20	4.25	1.4	0.8	66.79	7.09	58	55.54
9002	473452	5568686 3.3	6	3.9		28	6.93	42	23666	31	5.13	1.4	0.7	109.85	8.88	74	26.44
9003	473132	5569505 2.5	-2	-2.0		17	3.71	17	7287	17	3.43	-0.2	0.3	62.71	6.25	50	57.97
9004	473783	5570172 1.7	-2	3.3		19	4.56	15	6818	17	2.42	1.3	0.8	45.47	2.29	55	39.05
9005	472378	5570192 3.9	-2	-1.0		21	3.91	22	11885	19	4.63	0.4	0.3	78.10	10.19	62	61.08
9006	472572	5570913 2.3	-2	2.4		21	3.45	20	25552	19	3.75	1.0	0.5	84.52	12.87	72	56.76
9007	472326	5571523 INF	INF	-1.0		27	5.69	23	7160	20	4.31	-0.1	0.2	INF	N.D.	76	55.57
9008	474291	5571103 2.8	-2	-2.0		16	2.98	23	10039	19	4.49	-0.2	0.2	85.58	7.94	61	52.67
9009	474260	5572474 4	-2	-2.0		25	4.15	26	10495	18	3.66	0.3	0.5	62.44	15.31	66	60.94
9011	475110	5570890 3	-2	3.7		25	7.69	34	17957	25	5.18	1.4	0.9	155.46	22.38	64	32.79
9012	476209	5570592 5.8	-2	2.8		24	4.74	26	13814	16	4.75	1.3	0.8	87.99	26.72	53	44.63
9013	476939	5571138 3.2	-2	2.5		33	7.67	44	23426	30	6.49	1.2	0.9	192.27	20.82	97	37.62
9014	476352	5572192 4.6	-2	-1.0		17	2.86	24	9148	18	3.23	0.5	0.3	69.61	8.94	54	40.6
9015	476262	5573865 8.7	-2	2.4		17	4.03	25	16661	16	3.23	1.2	ND	58.47	5.24	47	44.77
9016	476408	5575083 2.6	-2	3.1		24	4.02	26	5111	21	4.9	1.0	0.7	61.82	4.10	61	50.33
9017	477333	5575363 3.4	-2	2.0		37	5.33	28	13207	22	5.85	0.7	0.7	90.87	6.05	65	48.66
9018	477653	5573961 3.7	-2	4.1		24	6.02	37	18326	27	6.02	1.3	0.9	98.53	4.29	69	35.07
9019	480659	5574353 2.8	-2	2.5		30	7.49	40	24394	35	5.72	ND	ND	105.14	7.09	90	44.07
9021	481022	5575604 2.8	-2	3.2		33	10.28	51	30330	38	6.99	1.1	0.7	112.23	4.64	98	21.33
9022	482109	5574576 3.9	-2	3.7		34	9.95	52	28646	41	7.68	ND	0.5	145.99	10.95	91	23.3
9023	484945	5576694 2.3	-2	2.8		28	7.37	32	17304	26	5.21	ND	0.6	102.11	3.66	114	50.79
9024	484215	5577337 3.6	-2	3.2		30	9.9	51	29153	42	7.69	ND	ND	151.94	4.42	84	15.71
9025	483226	5579014 4.3	-2	3.3		39	12.69	63	35538	50	10.45	ND	0.6	163.19	4.44	107	18.53
9026	481692	5581677 3.2	-2	3.4		34	13.4	57	32658	46	9.61	1.0	0.5	163.85	3.58	99	12.03
9027	483912	5581656 4.1	-2	1.0		38	12.08	64	33850	48	9.71	0.9	0.8	147.37	5.05	109	20.76
9028	485169	5580610 6	-2	4.3		40	12.9	60	35494	49	18.81	1.1	0.8	160.60	3.87	110	19.41
9029	486748	5578062 3.1	-2	2.6		37	12.56	62	33687	48	9.22	ND	ND	146.76	4.26	101	20.53
9031	482644	5583948 NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9032	481196	5585831 3.9	-2	3.2		32	12.88	57	34048	45	8.58	ND	ND	151.21	3.54	98	12.07
9033	482925	5586185 3.6	-2	3.7		30	7.25	35	18523	38	5.65	1.0	ND	95.72	2.80	87	53.24
9034	484011	5587094 2.6	-2	-1.0		33	10.99	52	26982	42	8.25	0.6	0.6	132.51	3.03	82	26.61
9035	483698	5587732 2.6	-2	1.8		32	12.78	58	32908	44	8.12	1.2	0.9	147.81	3.17	94	14.7
9036	485830	5588309 3.3	-2	-2.0		36	8.8	48	20868	43	7.28	0.5	0.5	103.79	3.41	83	34.41
9037	488491	5588618 3.6	-2	-2.0		39	8.5	46	22690	43	6.84	0.5	0.5	104.15	3.08	81	33.23
9038	484184	5590343 4.2	-2	2.3		31	12.1	40	28269	41	12.2	1.4	0.8	148.78	1.44	85	6.49

Site #	Easting NAD83 UTM Zone 15	Northing Method--> Units--> Detection limit-->	As INAA ppm 0.5	Au INAA ppb 2	Au FA ppb varies*	Cu ICP-OES ppm 5	Co ICP-MS ppm 0.05	Cr ICP-OES ppm 4	Fe ICP-OES ppm 5	Ni ICP-OES ppm 5	Pb ICP-MS ppm 0.05	Pd FA ppb varies*	Pt FA ppb varies*	REEs*	U ICP-MS ppm 0.05	Zn ICP-OES ppm 2	LOI Grav. % 0.01
9039	482575	5589801	3.5	-2	2.7	28	12.63	55	33414	42	7.84	1.3	0.8	153.57	2.22	90	12.55
9041	487167	5593282	2.4	-2	1.5	29	10.39	48	21708	41	5.75	1.1	ND	95.71	2.05	90	32.4
9042	485056	5593058	2.8	-2	2.5	33	17.89	77	44235	59	10.22	1.3	0.7	161.73	2.03	137	13.23
9043	481152	5593547	5.4	-2	2.9	31	11.33	53	29646	41	13.81	1.3	0.8	134.90	2.02	97	14.71
9044	479173	5592704	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9045	478192	5594001	4	-2	2.7	34	13.34	59	33110	50	8.75	1.6	0.9	153.01	3.39	107	17.43
9046	477501	5592195	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9047	476454	5592937	4.4	-2	3.4	38	12.46	55	29509	46	11.14	1.5	0.8	154.06	4.22	104	20.97
9048	476148	5594185	4.1	-2	-1.0	32	9.91	41	23777	42	7.14	0.4	0.3	123.96	5.10	114	42.88
9049	475613	5593024	4.2	-2	4.1	62	14.73	63	50305	53	8.62	1.6	0.5	159.89	9.03	152	35.16
9051	474952	5592217	4.3	-2	2.8	48	13.87	62	39601	55	9.64	1.6	0.7	212.39	6.66	118	29.5
9052	473998	5591341	5.5	-2	-1.0	36	10.03	46	28298	42	8.57	0.5	0.5	123.71	16.73	99	39.57
9053	472776	5590916	3.6	-2	-1.0	31	11.46	38	31976	35	7.03	0.4	0.3	115.48	2.79	142	45.83
9054	471259	5591806	4.2	-2	-1.0	51	8.05	42	17255	50	5.9	0.5	0.5	109.93	4.69	72	30.32
9055	472438	5592107	4.8	-2	3.3	36	12.69	52	32290	43	9.54	1.6	0.7	153.53	4.59	95	19.04
9056	473346	5592992	3.2	-2	2.7	36	12.33	57	32514	49	8.41	1.5	0.7	145.25	12.19	115	28.21
9057	472371	5593972	3	-2	-1.0	38	10.02	48	23830	46	6.75	0.4	0.4	120.82	3.17	80	33.59
9058	470983	5593481	3.5	-2	2.4	39	15.86	70	41742	54	11.01	1.5	0.8	178.16	2.77	118	11.8
9059	469653	5594156	4.2	-2	-2.0	37	12.37	53	28437	49	8.51	0.6	0.5	155.79	5.28	106	26.07
9061	468129	5593738	3.9	-2	-2.0	44	12.95	59	32466	57	9.03	0.6	0.7	166.55	5.91	121	28.14
9062	465339	5593653	3.9	-2	4.6	43	12.62	53	33461	47	10.68	1.6	0.7	178.08	5.33	103	23.33
9063	464917	5592390	3.7	-2	-3.0	43	11.28	55	30228	53	9.56	0.8	0.4	171.83	7.27	109	26.88
9064	465823	5591575	4.9	-2	2.5	40	10.52	50	31880	48	9.21	1.7	0.7	164.31	6.39	104	31.06
9065	467690	5591259	6.8	-2	2.0	42	11.71	64	34867	48	11.08	0.7	0.7	181.23	6.22	112	15.02
9066	469577	5591135	1.5	-2	2.2	6	2.15	9	5316	8	2.95	1.0	0.6	72.23	6.38	18	4.12
9067	469053	5589490	2.7	-2	INF	35	7.53	23	13359	24	3.35	INF	INF	143.78	5.56	65	67.53
9068	464592	5589831	6.9	-2	-2.0	46	7.13	28	17601	40	5.1	0.6	0.5	91.92	18.98	66	45.33
9069	465238	5589318	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9071	464643	5587239	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9072	470045	5584891	2.6	-2	-2.0	22	9.22	40	20307	35	7.04	0.4	0.3	112.55	2.69	82	33.05
9073	469765	5586135	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9074	471269	5586688	10	-2	1.7	20	4.2	14	9970	17	3.34	1.1	0.5	63.98	7.06	28	3.56
9075	472373	5583154	2.5	-2	3.3	29	7.19	35	20924	29	5.07	1.3	0.6	127.92	2.52	79	32.76
9076	474230	5582190	3	-2	5.0	39	10.19	49	29528	43	7.5	1.9	0.8	151.61	4.43	94	27.26
9077	475363	5582448	5	-2	4.5	46	21.56	63	44116	50	12.49	2.0	0.7	180.95	5.02	128	28.57
9078	474823	5583509	3.2	-2	2.8	32	10.86	41	20448	37	7.04	1.4	ND	121.19	1.52	112	42.65
9079	475858	5583740	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9081	476802	5584156	3.3	-2	2.7	34	15.49	60	36365	45	9.58	1.3	0.5	136.17	2.12	139	24.41
9082	474597	5585094	4.4	-2	3.6	37	12.72	62	35258	47	9.53	1.7	0.7	180.59	6.40	121	21.29
9083	474778	5586707	3.9	-2	3.0	43	13.71	60	34447	51	9.84	1.9	0.8	173.41	7.17	112	17.61
9084	476287	5586757	6.4	-2	3.6	38	11.24	52	29929	45	13.36	1.7	0.7	155.92	4.90	102	21.52
9085	476442	5588358	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9086	474580	5588515	4.7	-2	1.3	47	12.41	57	33090	51	10.36	ND	ND	176.69	9.33	112	20.54
9087	474070	5587704	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9088	473567	5588573	2.8	-2	2.8	29	13.32	53	32102	44	9.24	1.5	0.5	168.81	33.03	106	20.33
9089	474521	5590064	4.1	-2	4.9	40	13.75	62	35817	51	9.69	1.5	0.9	172.68	3.92	109	14.1
9091	477397	5589814	3.6	-2	3.8	34	11.27	51	31500	45	8.01	1.4	0.8	145.33	2.26	92	16.32
9092	477664	5590886	3.4	-2	12.2	29	10.18	51	28284	41	7.79	1.5	0.9	144.28	4.25	89	12.93
9093	478435	5591516	2.8	-2	-2.0	16	2.55	13	4972	29	3.37	-0.2	0.2	41.47	2.28	97	67.43
9094	480212	5590471	3.8	-2	4.3	39	12.4	56	33159	48	9.44	1.6	0.8	160.39	1.86	103	17.48
9095	478852	5588231	4.1	-2	3.5	37	10.52	52	29842	44	9.1	1.5	0.8	144.47	2.96	97	19.09
9096	478854	5586755	8.1	-2	3.3	104	16.74	45	36107	68	7.84	2.4	1.4	150.26	18.04	84	7.32
9097	478282	5584929	4.1	-2	2.4	42	10.84	54	30786	46	8.59	1.0	0.7	186.10	2.12	100	25.06
9098	480135	5583020	4.7	-2	6.5	37	12.98	58	32627	49	9.66	1.3	0.9	173.59	4.91	102	18.2
9099	479188	5582007	4.1	-2	-1.0	41	9.9	46	34793	43	7.88	0.7	0.5	128.98	1.39	94	38.43

Detection Limit Varies*--> The detection limit varies from sample to sample depending on the amount of sample pulp available for assay.

REEs* --> Total rare earth elements added together (La to Lu) based on the summary of elements in Table 1.

NS--> No Sample

NM--> Not Measured- lost, spilled, contaminated

INF--> Insufficient Sample Pulp

QC--> values cut due to Quality Control problems

Metric Conversion Table

Conversion from SI to Imperial			Conversion from Imperial to SI		
<i>SI Unit</i>	<i>Multiplied by</i>	<i>Gives</i>	<i>Imperial Unit</i>	<i>Multiplied by</i>	<i>Gives</i>
LENGTH					
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
AREA					
1 cm ²	0.155 0	square inches	1 square inch	6.451 6	cm ²
1 m ²	10.763 9	square feet	1 square foot	0.092 903 04	m ²
1 km ²	0.386 10	square miles	1 square mile	2.589 988	km ²
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
VOLUME					
1 cm ³	0.061 023	cubic inches	1 cubic inch	16.387 064	cm ³
1 m ³	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m ³
1 m ³	1.307 951	cubic yards	1 cubic yard	0.764 554 86	m ³
CAPACITY					
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
MASS					
1 g	0.035 273 962	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 747	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 622 6	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311 3	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 90	t
CONCENTRATION					
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

	<i>Multiplied by</i>	
1 ounce (troy) per ton (short)	31.103 477	grams per ton (short)
1 gram per ton (short)	0.032 151	ounces (troy) per ton (short)
1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in co-operation with the Coal Association of Canada.

MAPS NOT FILMED

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micromedia
a division of IHS Canada

20 Victoria Street
Toronto, Ontario M5C 2N8
Tel.: (416) 362-5211
Toll Free: 1-800-387-2689
Fax: (416) 362-6161
Email: info@micromedia.on.ca